
Volume

#

R0247

BOOK A-247

INDEX DIAGRAM.

Township 3 N, Range 1 W.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain over even and uneven ground, and plumb the tally pins, either by striking or dropping them; that
we will report the true distances to all notable objects, and the true lengths of all line; that we will in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moudbraten in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moudbraten.

, Moudbraten.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-247

INDEX DIAGRAM.

Township 2 S, Range 5 E.

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		47		38				

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 }



BOOK A-247

INDEX DIAGRAM.

Township 1 S, Range 7 E.

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			120	114	107
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7	8	9	113	10	106
				11	98
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				14	97
				13	76
125	121	119	112	104	96
82	10	123	20	118	21
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30	122	29	117	28	109
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				25	75
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PRELIMINARY OATHS OF ASSISTANTS.

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, *Chairman.*

, *Chairman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, *Axman.*

, *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

Township 3 N., Range 14 E.

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<i>Partial Beginning Block</i>					
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164	166	163	158	152	147
					141
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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

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<i>Meanders Page</i>			

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....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

Township 7 N				Range 5 E.			
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329	326	319	312	305	298		
264	325	318	311	304	298	12	
329	325	317	311	304	297		
263	324	317	310	303	297	13	
328	323	316	310	303	296		
262	323	316	309	302	296	24	
328	322	315	308	302	295		
261	321	314	307	301	294	25	
327	321	314	307	301	294		
260	320	313	306	300	293	26	

Meanders Page.....

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, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



INDEX DIAGRAM.

Township 8 N., *Range* 5 E.

345	388	381	374	367	361	
392	388	380	373	367	361	
344	387	379	373	366	360	
391	386	379	372	366	360	
343	386	378	371	365	359	
390	385	378	371	364	359	
342	384	377	370	364	358	
390	384	377	370	364	358	
341	383	376	369	363	357	
389	383	375	368	363	357	
340	382	374	368	362	356	

Meanders Page

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, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
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, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

Township	W	S	Range	E
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405	464	456	448	440
468	463	456	448	439
406	463	455	447	439
467	462	454	447	438
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466	461	453	445	437
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466	460	452	443	435
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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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, Chainman.

, Chainman.

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, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



INDEX DIAGRAM.

Township N, Range E.

525	6	516	5	509	4	502	3	494	2	487	1
519		515		508		501		494		486	
525	7	515	8	508	9	500	10	493	11	486	12
519		514		507		500		493		485	
524	18	513	17	507	16	499	15	492	14	484	13
518		513		506		499		491		484	
524	19	512	20	505	21	498	22	491	23	483	24
517		512		505		497		490		483	
523	30	511	29	504	28	497	27	489	26	482	25
517		511		504		496		489		481	
523	31	510	32	503	33	495	34	488	35	481	36

Meanders Page

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, Moundman.

, Moundman.

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WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-247

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines

of

Township No. 3 North, Range No. 1 West,

of the Salt Lake Base Meridian,

In The State Of Utah,

AS SURVEYED BY

Frank E. Baxter and William B. Dougall, United States Deputy Surveyors,

Under ^{the} Contract No. 214, dated July 21, 1897

Survey commenced August 2, 1897

Survey completed August 3, 1897

6-201

Subdivision lines	"	530	61	79
	"	54	18	79
From	"	25	34	6

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Steffer	Chairman
James W. Welch	Chairman
James Stewart	Manager
David G. Brown	Manager
Walter H. McLaughlin	Assurer
Thomas Slater	Assurer
George M. Dougall	Flagman
Charles Lathis	Flagman

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BOOK A-247

INDEX DIAGRAM.

Township....., *Range*.....

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18	17	16	15	14	13 T C
19	20	21	22	23	24 B A V T F
20	20	25	27	26	25 T C
21	22	23	24	25	26 T C

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, John D. Dougall, Thomas A. Healday, John H. Stuber and James W. Kelch do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

the subdivision lines of Township No. 3 North, of Range No. 1 West of the Salt Lake Base Meridian in the State of Utah.

John D. Dougall
John H. Stuber

Thomas A. Healday, Chainman.
James W. Kelch, Chainman.

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh M. Dougall
Notary Public
My Com 4pm Sept 19th 1901

We, James Stuart and David W. Graw do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Township No. 3 North, of Range No. 1 West of the Salt Lake Base Meridian in the State of Utah.

James C. Stuart, Moundman.
David W. Graw, Moundman.

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh M. Dougall
Notary Public

We, Walter McLaughlin and Thomas Slater do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Township No. 3 North, of Range No. 1 West of the Salt Lake Base and Meridian in the State of Utah.

Walter McLaughlin, Axman.
Thomas Slater, Axman.

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh M. Dougall
Notary Public

We, George M. Dougall and Charles Callis, do solemnly swear that we will well and truly perform the duties of flagmen according to instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Township No. 3 North, of Range No. 1 West of the Salt Lake Base and Meridian in the State of Utah.

George M. Dougall, Flagman.

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh M. Dougall
Notary Public

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Consequently, the first step is to identify the main components of the system and their interactions. This involves understanding the physical processes and the mathematical models that describe them. The second step is to formulate a hypothesis or a set of hypotheses that explain the observed behavior. This hypothesis should be testable and falsifiable. The third step is to collect data that can be used to test the hypothesis. This data can be obtained through experiments, observations, or simulations. The fourth step is to analyze the data and draw conclusions. This involves using statistical methods to determine if the data supports the hypothesis. The fifth step is to refine the hypothesis based on the results of the analysis. This process may involve several iterations of hypothesis testing and refinement.

401

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402

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403

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Submission of T.3 N., R. 17 W.

Survey commenced August 2, 1897, and executed with two N. and S.E. Burley light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct; and were approved by the Surveyor General for Utah, August 2, 1897.

To examine the adjustments of the transits, and correct the level and collimation errors; then to test the solar apparatus by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:-

At the $\frac{1}{4}$ sec. cor. int. sec. 12 and 13 T.3 N., R. 17 W. latitude $41^{\circ}00'N$, longitude $111^{\circ}54'W$, we set off $41^{\circ}00'N$ on the lat. arc, $17^{\circ}34'N$ on the decl. arc of one of the instruments, and at $4^h 50^m$ p.m. l.m.t. determine with the solar, a true meridian and mark a point there on a plug driven in the ground 5 chs. N. of the cor.

With the 2nd instrument placed on the same initial point, we set off $41^{\circ}00'N$ on the lat. arc and $17^{\circ}34'N$ on the decl. arc and at $5^h 06^m$ p.m. l.m.t. determine with the solar, a true meridian and mark a point there on the plug already set 5 chs. N. of our station. This point falls 0.1 in. N. of that of the 1st instrument.

At $1^h 05^m$ by our watches which are $27^m 36^s$ fast of l.m.t. we observe Polaris at eastern elongation, with the 1st instrument - in accordance with Manual of Instructions, and mark a point on the line thus determined, on a plug driven in the ground 5 chs. N. of our station.

August 2, 1897.

Subdivision of T. 3 N., R. 17 W.—Continued.

August 3, 1897. At 6^h a.m. l.m.t. we lay off the azimuth of Polaris $1^{\circ}39'$ to the west and mark the true meridian thus determined, with the 1st instrument, by a pencil mark on the stake set Aug. 2, on which the true meridian falls 0.2 ins east of the mark determined by the solar of the 1st instrument and 0.3 ins east of that of the 2nd instrument.

At 7^h 0^m a.m. l.m.t. we set off $4^{\circ}00'$ N. on lat. arc, $17^{\circ}2'37''$ on the decl. arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs N. of our station; this mark falls 0.4 ins east of true meridian established by the Polaris observations.

At 7^h 10^m a.m. l.m.t. we set off $4^{\circ}00'$ N. on the lat. arc, $17^{\circ}25'7''$ on the decl. arc of the 2nd instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs N. of our station; this mark falls 0.3 ins east of the true meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations, define positions for true meridians, respectively about $0^{\circ}1'$ west and $0^{\circ}1'$ east of the true meridian established by the Polaris observations, with the 1st instrument and $0^{\circ}16'$ west and $0^{\circ}16'$ east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8^h 30^m a.m. is $N. 17^{\circ}15' W.$ the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $17^{\circ}0' E.$

From the 1/4 acre cor. bet. recs. 12 and 13, which is a part, badly decayed, and which we replace by a gray granite stone $20 \times 10 \times 5$ ins, 15 ins in ground for 1/4 acre cor. marked 1/4 on north face; raise mound of stone 2 ft. base 1/2 ft high N of cor. Pits impracticable:—We run

East on a random line bet. recs. 12 and 13.

Subdivision of T.3 N., R. 1 W. - Continued.

- 39.74 Interest Salt Lake Mountain on E. 2dy of Tg. 21
Mr. S. of cor. of secs. 7, 12, 13, and 18 which is a
lime stone $5 \times 9 \times 7$ ins above ground, marlled and
weathered as described by surveyor general.
Thus we run
 $S 89^{\circ} 42' W$ on true line bet. secs. 12 and 13.
On descending mountain slope.
Wire fence, bears N. and S.
5.00 Foot of abrupt descent, then gentle descent
5.60 Irrigation ditch, $3\frac{1}{2}$ ins wide 1 ft deep drains $N. 25^{\circ} W$.
9.00 Abrupt descent, sloping $\frac{3}{4}$ t.
14.40 Foot of abrupt descent then gentle descent.
14.62 Irrigation ditch $3\frac{1}{2}$ ins wide 1 ft deep drains $S. 37^{\circ} W$.
15.15 Enter alfalfa field, bears $S. 60^{\circ} W$ and $N. 60^{\circ} E$.
20.40 Irrigation ditch $8\frac{1}{2}$ ins wide 2 ft deep, drains S.
20.87 Wire fence bears N. and S.
31.43 Lean alfalfa field enter meadow bearing N. & S.
33.18 Swale drains $S 30^{\circ} W$.
33.93 Fence, bears N. E. and S. W. also lean meadow
and enter garden.
36.36 Lean garden, enter garden bearing N. and S.
37.19 N.E. cor. of Mary Jane Williams' stone house,
bears $S. 30^{\circ} E$. $30\frac{1}{2}$ ins dist. Also S.E. cor. of
Emma Williams' frame house bear $N. 30^{\circ} W$.
 $15\frac{1}{2}$ ins dist.
38.40 Lean yard, wire fence, enter street $S 30^{\circ} E$ and
 $N. 30^{\circ} W$.
39.74 The $\frac{1}{4}$ acre cor. bet. sec. 12 and 13.
^{14.40}
^{23.32} Also wire fence on W. side of street.
Land mountainous 14.40 chs.
Gentle slope ≈ 5.34 chs.
Soil 1st and 3rd rates. Swam and gravelly.
No timber.
Mountainous land 14.40 chs.

From the $\frac{1}{4}$ acre cor. bet. sec. 1 and 12, which
is a part badly decayed, and which lie
by a gray granite stone $20 \times 10 \times 10$ ins. 15 ins
in ground for $\frac{1}{4}$ acre cor. marlled $\frac{1}{4}$ on N.
face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high N. of cor. Pits impracticable, the
 $N. 89^{\circ} 42' E$ on a random line bet. sec. 1 and 2.

Subdivision of T. 3 N., R. 17 W. - Concluded.

39.78	Intersect Salt Lake Meridian on E. bdy of 5 p. sets S. of the cor. of secs. 1, 6, 7, and 12, which is a granite stone 15 x 11 x 6 ins above ground, marked and witnessed as described by surveyor general. Thus we run S 89° 40' 31" on true line betw. secs. 1 and 12.
133.8	Over abruptly descending mountain slope.
18.28	Bottom of gully on steep mountain slope, drains S 70° 41" thence descend along steep side of gully.
21.54	Top of spur on mountain slope projects S 70° 41" abrupt descent.
26.15	Brink of very abrupt descent, bears N 20° W. and S 20° E.
29.78	Bottom of gulch, 500 ft. below arc. cor. drains N 20° 41" ascend.
32.20	Top of spur, projects N 20° 41", thence descend.
39.79	The 1/4 sec. cor. betw. secs. 1 and 12. Land mountainous 39.78 chs. Soil 3 rd and 4 th rates. granite stone and boulders no timber. Mountainous land 39.78 chs.

August 3, 1897.

General Description.

This fractional township contains mountainous and bush land, and the soil ranges from 1st to 4th rates; but irrigation is necessary for the production of crops.

There is no timber; but there are a few scattering patches of small oak brush.

Shepard's Creek is the only source of water supply, but it is insufficient.

There are two settlers in sec 12. Henry Moon, who claims the N 1/4 of the N.E. 1/4; and Henry Anderson who claims the S.E. 1/4 of the N.E. 1/4, both have cultivated small patches on the bush slopes.

Frank E. Baxter
William B. Dougall.
U.S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frank E. Clarke, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from

United States Surveyor General for

the day of July 21, 1884, I have well, truly, and truly, in my proper person, and in strict conformity with the instructions contained by the United States Surveyor General for

United States, surveyed all those parts or portions of

the Survey of the State of New Mexico, which were represented to me as having been surveyed by me, not under my direction, and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for

the specific extent described in the field notes, and that the foregoing are the original field notes of such surveys and should not exceed the amount of

the penalty of perjury under the provisions of an Act of Congress approved August 10, 1864.

United States Deputy Surveyor

Subscribed by said Frank E. Clarke, and sworn to before me,

this 21st day of July, 1884.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Frank E. Clarke, July 21, 1884

The foregoing field notes of the survey of the land division of Township 3 North Range 41 West of the First Meridian, in the State of Colorado, U.S.A.

executed by Frank E. Clarke & William J. Engall,
under his contract No. 24, dated July 21, 1884, having been
critically examined, and the necessary corrections and explanations made, the said field notes and the
surveys they describe, are hereby approved.

Frank E. Clarke

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described survey is
has been correctly copied from the original notes on file in this office.

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BOOK A-247

H. J. B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision LinesofTownship No 2 South, Range No 5 Eastof the Salt Lake Base and Meridian,In The State of Utah

AS SURVEYED BY

J. F. Baxter and William G. Dougall, United States Deputy Surveyors,
under his Contract No. 214, dated July 21, 1897.Survey commenced August 9, 1897Survey completed August 14, 1897

6-161

Dist. Right 21-09-89 ✓
 Dist. Left 15-02 ✓
 Contingent Rec 24th 02, 1897
 " 4. 01. 23 ✓

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Steepe	Chairman
James W. Welsh	Chairman
James Stuart	Manager
David H. Graw	Manager
Walter W. McLaughlin	Chairman
Thomas Slater	Announcer
George W. Dougall	Chairman
Charles Laddis	Chairman

BOOK A-247

INDEX DIAGRAM.

Township _____, *Range* _____

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey o

....., Moundman

....., Moundman

Subscribed and sworn to before me this }
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey o

....., Axman

....., Axman

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this }
day of , 189 }



Subdivision of T.2 S., R.5 E.

Survey commenced August 9, 1897, and executed with two N. and S.E. Survey light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which isolate the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct; and were approved by the surveyor general for Utah, August 7, 1897.

We examine the adjustments of the transits and correct the level and collimation errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:-

At the cor. of sec. 2, 3, 34, and 35, on S. bdy. of T.2 S., R.5 E., latitude $40^{\circ}36'N.$, longitude $111^{\circ}22'W.$, we set off $40^{\circ}36'N.$ on the lat. arc, $15^{\circ}36'N.$ on the decl. arc, and at $3^{\text{h}}10^{\text{m}}$ p.m.-l.m.t. determine with the solar of one of the instruments, a true meridian and mark a point thereon on a plug driven in the ground 5 chs. N. of the cor.

With the second instrument placed over the same initial point, we set off $40^{\circ}36'N.$ on the lat. arc, $15^{\circ}36'N.$ on the decl. arc, and at $3^{\text{h}}10^{\text{m}}$ p.m.-l.m.t. determine with the solar a true meridian and mark a point thereon on the plug already set 5 chs. N. of our station. This point falls 0.1 inc. E. of that of the first instrument.

At $10^{\text{h}}35^{\text{m}}$ by our watch which are $25^{\text{m}}28^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation - with the 1st instrument, in accordance with the Manual of Instructions, and mark a point on the line thus determined, on a plug driven in the ground 5 chs. N. of our station.

August 9, 1897.

Subdivision of T. 2 S., R. 5 E. - Continued.

August 10, 1897, at 6⁴ a.m. l.m.t. we lay off the azimuths of Polaris, $1^{\circ}38'$ to the west and mark the true meridian thus determined - with the 1st instrument - by a pencil mark on the stake set August 9, on which the true meridian falls 0.3 ins east of the mark determined by the solar of the 1st instrument and 0.3 ins east of that of the 2nd instrument.

At 7⁰⁰ a.m. l.m.t., we set off $40^{\circ}36'N$ on the lat arc, $15^{\circ}25'W$. on the decl arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs N. of our station; this mark falls 0.1 ins east of the true meridian established by the Polaris observations.

At 7¹⁰ a.m. l.m.t. we set off $40^{\circ}36'N$. on the lat arc, $15^{\circ}25'W$ on the decl arc of the 2nd instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs N. of our station; this mark falls 0.7 ins east of the true meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations, define positions for true meridians, respectively about $0'16''$ west and $0'5''$ east of the true meridian established by the Polaris observations - with the 1st instrument, and $0'11''$ west and $0'11''$ east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8³⁰ a.m. is $N 16^{\circ}40' W$, the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $16^{\circ}35'E$.

Preliminary to commencing the subdivision of the un-subdivided portion of this Tp., we run north on a blank line on east boundary of sec. 34; at 40.00 chs. we find the 1/4 sec. cor. N. 1.20 chs dist. and at 80.00 chs. the cor. of secs 26, 27, 34, and 35, N. 2.45 chs dist.; therefore we continue our line north, and find the remaining portion of the north and south line to be practically as given by the surveyor general, except that no trace can

Subdivision of T. 2 S., R. 5 E. — Continued.

On top of

is formed of the cor of secs 22, 23, 26, and 27; therefore we re-establish this cor at a point 80.00 chs. north of the cor of secs 26, 27, 34, and 35, by setting a gray granite stone 16 x 10 x 10 ins. 11 ins. above ground for cor of secs 22, 23, 26, and 27, marked with 2 notches on S. and E. edges, raised mound of stone, 2 ft base, $1\frac{1}{2}$ ft high $\frac{1}{4}$ of cor. Pits impracticable. We retrace the E. bdy of sec. 34 as follows:—

From the cor of secs 23, 34, and 35, on S. bdy of Tp. which is a sand stone 5 x 8 x 8 ins above ground marked and situated as described by surveyor general, we run

N. on a true line betw. secs. 34 and 35,
On descending mountain slope.

22.00 Foot of steep descent, also enter willows and bottom land, bearing E. and N.

33.50 Provo River, 100 ft wide 1 ft deep, flows west.

41.20 The old $\frac{1}{4}$ sec. cor. which is a sand stone 6 x 12 x 8 ins above ground, marked $\frac{1}{4}$ on N. face.

47.50 Lean willows; also cross wagon road, bearing NW and SE. Also abrupt ascent.

60.00 Top of ridge bears E and N. descend

64.00 Hollow, drains N. ascend

70.00 Top of abrupt ascent, thence gentle ascent.

82.45 The old cor of secs 26, 27, 34, and 35, which is a sand stone 10 x 10 x 10 ins above ground, marked and situated as described by surveyor general.

Land mountainous 56.95 chs.

Bottom land 25.50 chs

Soil in bottom 1st rate, on mountains 3rd and 4th rates.

Willow undergrowth 25.50 chs

No timber.

From the old cor of secs 2, 3, 10, and 11, which is a sand stone 6 x 10 x 6 ins above ground, marked and situated as described by surveyor general; we run

N. on a random line betw. sec. 2 and 3.

Get temp $\frac{1}{4}$ sec cor.

Intersect the N. bdy of Tp. 12 chs $\frac{1}{4}$ of the cor of secs 2, 3, 34, and 35; which is a porphyry stone

Subdivision of T. 2 S., R. 5 E.—Continued.

- 5x12x6 ins above ground, marked and situated as described by original survey.
Thence we run
 $80^{\circ}57' N$ on true line bet secs 7 and 3.
On ascending mountain slope.
Through scattering oak brush.
18.00 Very abrupt ascent on N. slope.
34.00 Top of ridge, 300 ft. abn sec cor. brns N. E. and S. W. also lean oak brush; descent along S. E. slope.
40.06 Set a gray sand stone 22x11x4 ins. 16 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor. Pile impracticable.
58.00 Head of draw, drains E. ascend, also enter Oak brush running E. and N.
65.00 Spur, projects E. thence along E. slope.
71.00 Ledge on E. slope.
80.06 The cor. of secs 2, 3, 10, and 11.
Land mountainous
Soil 3rd and 4th rates, gravelly and stony
Scattering oak brush 56.06 chs
No. timber.
Thence easterly E. and, 80.66 ins.

From the cor. of secs 2, 3, 34, and 35, on S. bdy of T. p., we run

N. along south bdry sec 34, at 39.99 chs. we fall 19 ft to N. of $\frac{1}{4}$ sec cor., and at 80.01 chs, fall 40 ft to N. of the cor. of secs 3, 4, 33, and 34, on S. bdy of T. p.; consequently the south bdy. of sec 34, bears $88943 \frac{1}{4}' N.$

Therefore, the bearing of this line is within the limit of error prescribed by the Manual, and our chaining practically agree with the field notes of the original survey.

From the cor. of secs 3, 4, 33, and 34, which is a porphyry stone 6x12x10 ins above ground marked and situated as described by original survey; we run
 $70^{\circ}17' N$ bet secs 33 and 34

Subdivision of T.2 S.R. 5 E. - Continued.

- Along side hill facing N.W.
Bottom of ravine, also spring branch 3 1/2 ft wide
2 ins. deep, drains N.E. ascent.
- 23.00 Road, runs N.E. and S.W.
Spur, projects N.E. abrupt descent.
- 26.00 Ravine face, runs N.E. and S.W. also bottom
of steep descent, thence nearly level across
Provo Canyon, 400 ft. below sec. cor.
- Earth dune willow undergrowth with a few
scattering cottonwoods and willow trees base E. of N.W.
40.00 Set a gray cobble stone 18x7x6 ins 1/2 ins in
ground for 1/4 sec. cor. marked 1/4 on N face,
raise mound of stone 2 ft base 1 1/2 ft high
N. of cor. Pits impracticable
A brick 4 ins diam runs N 40° E 30 ft dist, marked
1/4 S.B.T.
A brick 6 ins diam, runs S. 75° W. 18 ft dist
marked 1/4 S.B.T.
- 41.00 Provo River, 60 ft wide 1 1/2 ft deep, flows N.
46.73 N. of H. Waller's house 39.98 chs. 8
- 49.50 Part of old R.R. embankment, runs N 80° W and S 80° E
- 51.00 Foot of ascent, runs E and N. also beam willows
- 52.30 Earth garden runs E and N.
- 54.00 Beam same
- 56.63 N. of H. Waller's house 5.07 chs. 8
- 57.25 Irrigation ditch 5 ft wide 1 ft deep drains N.
57.50 Ravine face runs E and N.
- 58.00 Stage road runs E and N.
Thence abrupt ascent, also earth scattering
oak brush
- 68.00 Top of steep ascent, thence along E slope of spur.
- 82.00 Set a brown porphyry stone 18x10x8 ins 1/2 ins in
ground for cor of secs 27, 28, 33, and 34, marked
with 1 notch on 2 and 3 notches on 3 edges
raise mound of stone 2 ft base 1 1/2 ft high
N. of cor. Pits impracticable.
- Land mountainous 66.30 chs Bottom land 137.0 chs.
Soil in bottom ^{rich loam}, on mountain ^{gravel and stone} 3rd and 4th rates.
- Some willow undergrowth, 13.70 chs scattered oak brush rocks
No timber.
- Mountainous land, sand dune undergrowth 80.00 ins.

Subdivision of T. 2 S. R. 5 E. - Continued.

The instrument of the survey. From 34 alone a discrepancy in measurement beyond the allowable limit of the manual, therefore, in the N. 89°43' E. on a true line bet. sec. 27 and 34.

On descending mountain land, through scattering oak brush.

- 3.00 Bottom of gulch, drain. S., ascend. 70 ft. to
- 10.00 Spur, projects S., abrupt descent. 30 ft. to
- 11.20 Bottom of gulch, drain. S., ascend. stiff hillside
- 20.00 Top of spur 250 ft. above sec. cor. projects S. descent 50 ft. to
- 23.00 Ravine, drain. S. ascend. 50 ft. to
- 26.00 Spur, projects S. descend. 100 ft. to
- 34.50 Gulch, drain. S. ascend. 75 ft. to
- 40.00 Set a gray sand stone 18x8x6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base and $\frac{1}{2}$ ft. high N. of cor. Pits impracticable. Thus ascend 25 ft. to
- 44.00 Spur proj. S. descend. 60 ft. to
- 47.00 Ravine, drain. S. abrupt ascent. 60 ft.
- 55.00 Top of abrupt ascent, thus slightly undulating along S. slopes.
- 80.10 Intersect N and S line, 245 chs S. of the cor. Roads 26, 27, 34, and 35, from which we obliterate all markings pertaining to sec. 27 and 34.
Set a gray sand stone 16x2x7 ins. 11 ins. in ground for closing cor. of sec. 27 and 34, marked C. Cor. N. & S. groove on S and S groove on C faces, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Land Mountainous

Soil 4 th note, gravel and stones,

Scattering oak brush. 8010 chs.

No timber

Mountain land, 8010 chs.

August 10, 1897.

August 11, 1897: At 7⁰⁰ am. I set an air off 400 ft. N. on the lat. arc 1508 ft. on the decl. arc, and with one of the instruments determine a true meridian with the other, at the cor. of secs 27, 28, 33, and 34.

These in view

Subdivision of T.2 S., R.5 E. - Continued.

- No $\frac{1}{4}$ ac. bet secs 27 and 28.
 Along broken E slope, through scattering oak brush.
 27.00 Rock ridge runs N.E. and S.W.
 40.00 Set a gray granite stone 18x10x6 ins. 16 ins in
 ground for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on N face,
 raise mound of stone 2 ft base $\frac{1}{2}$ ft. high $\frac{1}{4}$ of
 cor. Pits impracticable.
 45.00 Spur projects S.E. thru slight descent, along
 E slope
 55.00 Head of gulch, drains S.E. ascend.
 55.00 Top of ridge, 600 ft above sec. cor., runs E and N.
 descend.
 71.00 Old road runs E and N.
 72.00 Small drain E, ascend
 77.00 Top of small rock knoll, 15 ft high, descend
 80.00 Set a gray granite stone 22x12x6 ins. 16 ins.
 in ground for cor. of secs 21, 22, 27, and 28, marked
 with 2 notches on S and 3 notches on E edge, raise
 mound of stone 2 ft base $\frac{1}{2}$ ft high $\frac{1}{4}$ of cor.
 Pits impracticable.

Land mountainous

Soil $\frac{2}{3}$ and $\frac{4}{5}$ native. gravelly loam and stony
 Scattering oak brush and growth 8000 chs.

No timber

Mountainous land 80.00 chs.:

- X N. 89 $\frac{1}{2}$ S. 10. on a random line bet secs 22 and 27,
 40.00 Make careful search for old $\frac{1}{4}$ ac. cor. but no
 trace can be found, then continue on line
 S.
 80.05 Enter N. and S. line 2.53 chs S of cor. of secs 23
 and 26 - here two described.
 Thence W. on line
 N. on blank line bet secs 22 and 27
 40.00 Set a brown porphyry stone 20x12x8 ins 15 ins
 in ground for re-established $\frac{1}{4}$ ac. cor. marked
 $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $\frac{1}{2}$ ft
 high $\frac{1}{4}$ of cor. Pits impracticable.
 Thence W. on line
 N. on true line bet secs 22 and 27.
 One ascending land, through scattering oak brush.
 55.00 Spur, projects S. descended 60 ft. to

Subdivision of T.2 S., R.5 E. - Continued.

65.00 Bottom of draw, drains S.E. ascend, also old road, bars N.W.
80.05 Between N and S line 2.93 chs N of the cor of sec
21, 22, 27 and 28, from which we estimate all markings pertaining to these 22 acres

Set a gray granite stone 16x10x8 ins 11 ins in
ground for closing cor of secs 22 and 27, marked
C.C. with 3 grooves on E and 2 grooves on S face,
raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high
E. of cor. Pits impracticable.

Land mountainous

Soil 2nd and 4th native, gravelly and stony,
scattering oak brush undergrowth + 0.05 chs
No timber.

Mountainous land 40.05 chs.

From the cor of secs 21 and 28 in line

No. 1 $\frac{1}{2}$ W. of secs 21 and 27,

On slightly descending E slope through scattering
oak brush

2.93 The closing cor of secs 22 and 27.

10.00 Head of draw, drains S.E. ascend

18.00 Top of small ridge connecting two ridges bars
E. and N. 40 ft. above sec cor. descend.

23.00 Old wood road bars N. & S. and S.E.

30.00 Head of draw, drains N. ascend.

40.00 Set a gray porphyry stone 12x10x6 ins 8 ins in
ground for 1/4 sec. cor. marked 1/4 on N face, raise
mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

45.00 Top of spur projects N. 20 ft. above 1/4 sec. cor. descend.

52.00 Head of draw, drains S.N.E. ascend.

57.00 Siber - Kansas road, bars E. and N.

59.50 Telephone line, bars E. and N. also enter dense
oak brush, same bearing.

75.00 Top of spur, projects N. 75 ft. above 1/4 sec. cor. descend.

79.00 Dead oak bearing E. and N.

79.75 Draw, drains S. 75 ft. ascend.

80.00 Set a gray granite stone 16x14x14 ins. 11 ins in ground
for cor of secs 15, 16, 21 and 22, marked with
3 notches on S. and E. edges, T. 2 S. on N.E. and
R. 5 E. on S.E. faces, raise mound of stone
2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits imprac-
ticable

Subdivisions of T. 2 S., R. 5 E. - Continued.

Land mountainous

Soil 3rd and 4th rates. gravel and sand.

Dense oak brush undergrowth 19.50 chs, scattering
oak brush undergrowth 59.50 chs.

No timber.

Mountainous land 6000 chs.

X

August 11, At the cor. of sec 15, 16, 21 and 22,
we set off 15°3' N on the decl. arc of one of the
instruments; and at 12:05 pm. L.M.T. ob-
serve the sun on the meridian, the re-
sulting lat. is 40°38' N.

The foregoing notes show that a random
line run east from this cor will not fall
within the limit, prescribed by the Manual,
on the N. and S. line, therefore we run

E. on a true line bet. secs 15 and 22.

Along ascending slope.

Thus ascend N. slope.

Enter thick quaking asp and scattering oak brush
undergrowth, near N. E. and S. W.

Top of ridge 165 ft above sec cor, near N. and S. declined

Lean quaking asp, near N. and S., thence only
scattering oak brush undergrowth.

Bottom of ravine, 500 ft. below, ridge drains S.E. ascend

Set a gray sand stone 16x14x6 ins. 11 ins in ground
for 1/4 acre cor. marked 1/4 on N face, raise mound
of stone 2 ft. base 1 1/2 ft. high N of cor. Pit imprac-
ticable.

42.00 Spur, projects S declined 30° ft. to

59.00 Head of draw drains S. ascnd 6.5 ft. to top of ridge

60.00 Small spring 2 chs. S.

65.00 Top of ridge near N and S. declined 12.5° ft. to

78.00 Gulch, drains S. ascnd. 12 ft. to

80.00 Intercept N and S. line 3.06 chs S. of cor. of sec.

14, 15, 21, and 22, which is a red granite stone
6x10x10 ins above ground marked and situated
as described by surveyor general, from which
we obliterate all markings appertaining to sec
15 and 22.

Set a brown granite stone 16x10x5 ins 11 ins
in ground for closing cor of sec 15 and 22

Subdivision of T2 S, R. 5 E - Continued.

marshed CC on N, 3 grooves on S and 2 grooves on E faces, raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft high N of cor. Pits impracticable
 Land mountainous
 Soil 3rd and 4th rates, gravel and stones.
 Quarling asp 5 chs scattering oak brush undergrowth 77 chs
 No timber
 Mountainous land 8.000 chs. X

No. 1 $\frac{1}{2}$ N. 10 sec. 15 and 16.
 On abruptly ascending land.
 1.00 Enter oak brush mass E. and N.
 6.00 Rocky spur proj N. there along precipitous
 W. slope
 20.00 Small divide mass E and N. 100 ft above sec. cor.
 22.00 Draw drains E, abrupt ascent.
 40.00 Set a gray granite stone 16x6x6 ins 11 ins in
 ground for 1/4 sec. cor. marshed 1/4 on N
 face, raise mound of stone 2 ft base 1 $\frac{1}{2}$ ft
 high N of cor. Pits impracticable.
 42.00 Top of mountain 500 ft above sec. cor. base N and
 S.E. Also lean oak brush, same bearing.
 48.00 Enter dense quarling asp undergrowth, base N.E.
 and S.E.
 76.00 Bottom of gully c. 500 ft below ridge, drain & side thence S. 75° E.,
 spring 2 chs. E. also lean quarling asp un-
 dergrowth, mass E. and N. abrupt ascent.
 8.00 Set a gray granite stone 18x8x6 ins 12 ins. in
 ground for cor of secs 9, 10, 15, and 16, marshed
 with 4 notches on S and 3 notches on E edge
 raise mound of stone 2 ft base 1 $\frac{1}{2}$ ft high
 N of cor. Pits impracticable.
 Land mountainous
 Soil 4th rate: stony.
 Quarling asp undergrowth 28.00 chs. Oak undergrowth + 2.00
 No timber
 Mountainous land, 8.000 chs.

August 11; At 3^h 05^m p.m. limit line set off 40° 39' N on
 the lat arc, 15° W on the decl arc and determine
 a true meridian with the solar of one of the
 instruments; at the cor of secs 9, 10, 15, and 16.

Subdivision of T. 2 S., R. 5 E. — Continued.

- Then we run
E. on true line bet. secs. 10 and 15
Over steep south slope.
Enter scattering oak undergrowth, bearing N. & S.
1.00 Then abrupt descent on E. slope.
14.00 Bottom of gulch, 200 ft below cor. cor. Spring main 4 chs.
wide 4 ins. deep, drains S., ascend.
4000 Set a gray porphyry stone 20x12x5 ins.,
15 ins. in ground for 1/4 acre, cor., marked 1/4
on N. face, raise mound of stone 2 ft base 1/2
ft. high N. of cor. Pits impracticable.
59.00 Ridge bears N. N. and S. E., 200 ft above, bottom of gulch, descend
80.07 Intersect N. and S. line 3.07 chs. S. of cor. of sec.
10, 11, 14, and 15, which is a sand stone 5x10x10
ins. above ground, marked and witnessed as
described by surveyor general, from which
we obliterate all markings appertaining to
secs 10 and 15.
Set a gray granite stone 16x12x8 ins 11 ins
in ground for closing cor. of secs 10 and 15,
marked C.C. on N., 4 grooves on S. and 2 grooves
on E faces, raise mound of stone 2 ft. base
1/2 ft. high N. of cor. pits impracticable.
Land mountainous
Soil 4th rate, stony loam
Scattering oak brush undergrowth 79.07 chs.
No timber.
Mountainous land, 80.07 chs..
-
- N. of 79. bet. secs. 9 and 10
Over abruptly ascending S. slope
Enter scattering oak undergrowth, bearing E. and N.
1.00 Enter scattering oak undergrowth, bearing E. and N.
22.00 Lean oak enter dense quaking asp undergrowth,
bearing E. and N.
23.00 Top of spur, projects E. descend quickly along E. slope.
30.00 Lean quaking asp undergrowth bears E. and N.
4000 Set a gray sandstone 16x8x6 ins. 11 ins in ground
for 1/4 acre. cor. marked 1/4 on N. face, raise mound
of stone 2 ft base 1/2 ft. high N. of cor. Pits
impracticable.
50.00 Head of gulch drains S. E., ascend.
59.00 Enter quaking asp undergrowth bears E. and N.

Subdivision of T. 25, R. 5 E - Continued.

61.00	Lean quaking asp undergrowth, bears E. and S.
72.00	Top of main Ridge 500 ft above sec. line. bears N. and S. and W. drain.
78.00	Abrupt descent on N. slope.
8.000	Set a gray granite stone 18x8x5 ins, 12 ins in ground for cor. of secs 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edge, raise mound of stone 2 ft base 1 1/2 ft high 2 1/2 ft cor. Pits impracticable.
	Land mountainous
	Soil 2 nd and 4 th rates, granular, loam, and stony
	Quaking asp undergrowth 10.00 chs, oak 2.00 chs.
	No timber.
	Mountainous land 8.000 chs.
11.00	E. on tree line bet. secs 3 and 10
	On steep ascending land.
12.00	Top of spur projecting N. from main ridge, thence descend along N. slope.
13.00	Enter dense quaking asp undergrowth, bears N. and S.
14.00	Lean same.
20.00	Head of gulch, drains N. ascend.
30.00	Top of main ridge, bears N. 80° E and S. 80° N. 150 ft above sec. cor. drain.
40.00	Set a gray granite stone 16x4x6 ins, 11 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft high N. of cor. Pits impracticable.
52.00	Pass betw. two ridges, ascend 75 ft to
61.00	Spur, projects S. abrupt descent, 500 ft following cor.
73.00	Cliff 75 ft high bears N. and S.
8.000	Interest N. and S. line 3.09 chs S. of the cor. of secs 2, 3, 10, and 11, here-to-far described, from which we obliterate all markings pertaining to secs. 3 and 10.
	Set a gray granite stone 16x12x8 ins, 11 ins in ground for closing cor. of secs 3 and 10, marked C.C. on N. 5 grooves on S. and 3 grooves on E. faces. raise mound of stone 2 ft base 1 1/2 ft high 2 1/2 ft cor. Pits impracticable.
	This cor. stands in edge of oak brush.
	Land mountainous.
	Soil 4 th rate, stony.
	Quaking asp undergrowth 2.00 chs.
	No timber.
	Mountainous land 8.000 chs. August 11, 1897.

Subdivision of T. 2 S., R. 5 E. — Continued

August 12, 1897: At 7th 05^{min} a.m. l.m.t. we set off 40° 40' N. on the lat. arc, 14° 49' N. on the decl. arc, and — with one of the instruments — determine a true meridian with the solar; at the cor. of sec. 3, 4, 9, and 10,

Hence we run

N. 81° W. on a random line bet. sec. 3 and 4.

40.00 Set temp 1/4 acre cor.

82.75 Interest N. by E. 5 ft. 18 Ms. N. of the cor. of sec. 3, 4, 33, & 34 which is a porphyry 6x10x10 ins. above ground marked and intuised as described by surveyor general

Hence we run

S. 0° 5' W. on a true line bet. sec. 3 and 4.

On descending E. slope through quaking asp and scattering oak brush undergrowth

10.75 Draw on E. slope, ascend. 30 ft. to

14.25 Specie projects E. descend. 66 ft. to

20.75 Bottom of ravine drains N. 65° E., ascend. 100 ft. to

42.75 Set a gray granite stone 24x16x5 ins., 18 ins. in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits unpracticable. Trees too small to mark. There are 350 ft. to top of mtn.

70.50 Draw quaking asp and oak undergrowth, running E. $\frac{3}{4}$ N. W.

73.75 Top of mtn. projects N. N. W. descend. 75 ft. to

80.75 Draw drains N. N. W. ascend. 10 ft. to

The cor. of sec. 3, 4, 9, and 10.

Land mountainous.

Soil 2nd and 4th rates, gravelly loam and stone.

Quaking asp and oak undergrowth, 70.50 chs.

No timber

Mountainous land 82.75 chs.

By retracing the S. bdy. of sec. 33, we find its course to be

S. 89° 43' W. and its length to be 80.36 chs: therefore, cont'd

From the cor. of sec. 27, 28, 33, and 34, we run

S. 89° 43' W. on a random line bet. sec. 28 and 33.

Set temp 1/4 acre cor.

81.41 Interest N. and S. line 10 Ms. S. of cor. of sec. 28, 29, 32, and 33, which is a lime stone 6x12x12 ins. above ground, marked and intuised as described by surveyor general.

Hence we run

N. 89° 47' E. on a true line bet. sec. 28 and 33.

Subdivision of T. 2 S., R. 5 E. - Continued.

	On an abruptly ascending land, through dense oak brush undergrowth.
12.30	Top of spur projecting S: also dense oak brush, thence along side hill sloping S.
30.00	Hence descend on S.E. slope, 60 ft to
35.00	Bottom of draw, drains S. ascend. 40 ft to
41.41	Sit a gray porphyry stone 22x12x8 ins 16 ins above ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft base 1 1/2 ft high N.E. Cor. Pitt impracticable, thence ascend 25 ft. to
43.60	Hence along S. slope.
55.10	Hence descend on E. slope. 20 ft. "
57.30	Rainie drains S. ascend. 30 ft. to
60.76	Spur, projects S. 15° W. descend. 30 ft. to
64.38	Rainie, drains S. 20° W. ascend. 30 ft. to
69.00	Spur, projects S. 30° W. descend. 25 ft.
72.00	Rainie, drains S. ascend. 30 ft. to
75.10	Spur projects S. descend, also enter scattering oak brush, bearing N and S.
81.41	The cor. of nos 27, 28, 33, and 34. Land mountainous Soil 4 ⁴ ft rate, stony. Dense oak brush undergrowth 12.30 chs. scattering oak 6.31 chs. No timber, mountainous land 81.41 chs. At this we retrace the N. bdy. of sec 33 and find its course to be N. 0° 43' W and its length to be 79.95 chs.

	From the cor. of nos. 21, , and 28, we run S. 89° 47' W. on a random line betw nos 21 and 28.
40.00	Sit temp 1/4 acre cor.
81.39	Intersect N. and S. line + lies N of the cor of nos 20, 21, 28, and 29, which is a granite stone 6x12x6 ins above ground, marked and returned as described by surveyor general.
	Hence we run N. 89° 45' E. on a true line betw nos 21 and 28
	On steep descending land, through dense oak brush.
13.00	Bottom of rainie, also facing north 14 ft. with 1 in. deep drains S.W. ascend. 150 ft. to
27.20	Top of slope, ascend, thence along S. slope, Oak brush

Subdivision of T.2 S. R. 5 E. - Continued.

- becomes scattering.
- 4.39 Set a gray porphyry stone 16x10x8 ins 11 ins in ground for $\frac{1}{4}$ acre, cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $\frac{1}{2}$ ft high N. of cor. Pits impracticable.
- 64.70 Top of ridge, 150 ft. above the cor., bearing N. 80° and S. 80° Eastward. The cor of secs 21, , and 28.
- Land mountainous.
- Soil 3rd and 4th rates, gravel and stony.
- Since oak brush undulating 27.20 chs scattering oak 54.19 chs.
- No timber. Mountainous land 8139 chs.
- August 12: At this cor. we set off $14^{\circ}45' N$ on the decl. arc of one of the instruments; and at 6^h or p.m. L.M.T. observe the sun on the meridian; the resulting lat. is $40^{\circ}38' N$.

- From the cor of secs 20, 21, 28, and 29, five miles N. on a random line bet secs 20 and 21,
- 40.00 Set temp $\frac{1}{4}$ acre, cor.
- 80.00 Intercept E and W line 56 ls. E of the cor of secs 16, 17, 20, and 21, which is a black sand stone 5x1x6 ins above ground, marked and witness as described by surveyor general.
- Three in row
- $30^{\circ}5' E$ on a true line bet secs 20 and 21.
- On descending land along N. slope.
- 3.00 Kibb-Haines road, bearing S. $50^{\circ} N$ and N. $50^{\circ} E$.
- 3.25 Telephone line runs E. and W.
- 3.50 Abrupt descent on S. slope, 125 ft. to
- 8.80 Bottom of ravine, drains S. $80^{\circ} N$. also with oak brush same variety as around, 150 ft. to
- 25.80 Top of spur projects N. also lean oak brush bearing S. $80^{\circ} N$. descent 150 ft. to ravine
- 40.00 Set a brown porphyry stone 20x12x8 ins. 15 ins. in ground for $\frac{1}{4}$ acre, cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $\frac{1}{2}$ ft high N. of cor. Pits impracticable.
- 54.40 Bottom of ravine, drains S. $40^{\circ} N$. also with oak brush same as ravine abrupt ascent, 150 ft. to
- 63.40 Top of abrupt ascent three threes along N. slope.
- 70.00 Spur projects S. $70^{\circ} N$. descent on S. slope, 100 ft. to
- 80.00 The cor of secs 20 21 28 and 29.

Subdivision S 52 S, R. 5 E. Continued.

Sand-mountainous

Soil $\frac{1}{2}$ rate stony.

Since our first underground at 60 chrs.

No timber

Mountainous land, 80 $\frac{1}{2}$ chrs

From the cor. of secs 16, 17, 20, and 21 we run
 $N 45^{\circ} 25' E$ on a random line bet. secs 16 and 21

-1.30 Set limb $\frac{1}{4}$ sec. cor.

51.32 Survey N. and S. line 40 ft. N of cor. of secs 16, 17, 20, and 21.
Hence we run

$N 45^{\circ} 58' 30'' E$ on a true line bet. secs 16 and 21.

Our descending S. slope. 60 $\frac{1}{2}$ ft to

10.60 Ravine, drains $S 40^{\circ} W$. ascend 30 $\frac{1}{2}$ ft to

13.70 Spur, proj. S. descend. 75 ft to

26.50 Ravine, drains $S 40^{\circ} W$. ascend 100 $\frac{1}{2}$ ft to

35.00 Spur projects S. W. descend. 150 ft to bottom of ravine

-40.00 Set a gray sand stone 24x12x10 ins 18 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise mound
stone 2 ft. base 1 $\frac{1}{2}$ ft. high N of cor. Site impracticable

51.60 Bottom of ravine, drains $S 80^{\circ} W$. ascend along spur 30 $\frac{1}{2}$ ft to

60.00 Spur, projects $S 80^{\circ} W$, descend. 150 ft. to

61.32 The cor. of secs 16, 17, 20, and 21.

Land mountainous

Soil $\frac{1}{2}$ and $\frac{1}{4}$ rate, gray and stony.

No timber

Mountainous land, 81 $\frac{1}{2}$ chrs.

From the cor. of secs 16, 17, 20, and 21, we obliterate
all markings pertaining to secs 16 and 17, and
at a point 13 $\frac{1}{2}$ chrs east, we

Set a gray sand stone 18x8x6 ins, 12 ins in ground
for cor. of secs 16 and 17 only; marked C on N.,
3 grooves on S and 4 grooves on E face, raise
mound of stone 2 ft. base 1 $\frac{1}{2}$ ft high N of cor.
Site impracticable.

August 2: At this cor. we set off $40^{\circ} 38' N$ on lat. arc
and $14^{\circ} 2' N$ on the decl. arc; and - with one of the
instruments - at $4^{\circ} 5'$ from plumb., determine a
true meridian with the solar.

Hence we run

$N 0^{\circ} 2' 7'' E$ bet. secs 16 and 17.

Subdivision of T. 2 S., R. 5 E. - Continued.

- On gently ascending N slope.
- 8.60 Top of spur projects S 80° W. also enter oak brush, descend 100 ft. to
20.00 Bottom of ravine, drains S 70° W, ascend. 3 or 4 ft to cor.
- +0.00 Set a white sand stone 20x10x6 ins 15 ins in
ground for 1/4 sec cor. marked 1/4 on N face,
raise mound of stone 2 ft. base 1 1/2 ft. high N of cor.
Pits impracticable.
- 80.00 Set a white sand stone 14x8x7 ins, 9 ins in ground
for cor of secs 8, 9, 16, and 17. marked with 4 notches
on Sand & edges, raise mound of stone 2 ft base
1 1/2 ft high N of cor. Pits impracticable.
- Land mountainous
Soil 4th rate stony
Oak brush undergrowth 7140 chs.
No timber.
Mountainous land, 8000 chs.

August 12, 1897.

August 13, 1897. At 7^h 05^m a.m. left. we set off 4 1/4 N.
on lat arc, 14° 31' N on the decl. arc; and, with one
of the instruments, determine a true meridian
with the solar; at the cor of secs 8, 9, 16, and 17.

Hence we run

S 89° 58' E. on a random line bet. secs. 9 and 16.

- +0.00 Set limb 1/4 sec. cor.
80.13 Intersect N and S line 11 1/2 ins N of cor of secs 9, 10,
15 and 16,

Hence we run

N 89° 53' W on a true line bet. secs 9 and 16.

On ascending S. slope.

- 1.00 Enter scattering oak brush, N. E. and S. W.
11.60 Bottom of ravine, drains S 70° E, also lean oak brush
and enter quarrying asp undergrowth, ascend
+0.06 1/2 Set a gray sand stone 36x14x12 ins 27 ins in ground
for 1/4 sec cor. marked 1/4 on N face, raise
mound of stone 2 ft base 1 1/2 ft high N of cor.
Pits impracticable, tree too small to mark.
- +3.50 Top of high ridge bears N. and S. 300 ft above
sec cor, also lean quarrying asp, enter oak brush descend
- 80.13 The cor of secs 8, 9, 16, and 17.
Land mountainous
Soil 4th rate, clay and stony.

Subdivision of T. 2 S., R. 5 E. — Continued.

	Quaking asp undergrowth 31.90 chs. Oak brush 47.23 chs.
	No timber mountainous land, 80.13 chs.
	N. 0° 2' 4" W. bet. secs. 8 and 9.
14.63	On steep N.W. slope, through oak brush undergrowth.
16.30	Top of abrupt ascent, thence along N. slope, 200 ft. above cor.
35.50	Descent on N.W. slope, 150 ft. to
40.00	Bottom of ravine, drains N. about 200 ft. to top, open. Set a gray sand stone 15 x 8 x 8 ins. 10 ins in ground for 1/4 acre. cor. marked 1/4 on N face, raise mound of stone 2 ft. base 1 1/2 ft. high 3/4 cor Pits impracticable
61.77	Top of spur, projects east from small ridge on N slope of mountain, descent. 60 ft. to ravine.
77.60	Lean oak brush, bearing E. & N.W.
79.00	Small draw, drains N.W.
80.00	Set a gray sand stone 20 x 10 x 8 ins, 15 ins in ground for cor of secs 4, 5, 8, and 9, marked with 5 notches on base 4 notches on E edge; raise mound of stone 2 ft. base 1 1/2 ft. high 3/4 cor Pits impracticable Land mountainous Soil 3 rd and 4 th rate. clay, stony.
	Oak brush undergrowth 77.60 chs
	No timber. Mountainous land 80.00 chs.
	August 13; At this cor we set off 14° 2' N on the decl. arc of one of the instruments, and at 0 ^h 05 ^m p.m. b.m.t. observe the sun on the meridian; the resulting lat. is 40° 40' N.
	5.89° 53' E, on a random line bet. secs. 4 and 9.
40.00	Set temp 1/4 sec. cor.
80.04	Intersect N. and S. line 160 ft. S of cor of secs 3, 4, 9, and 10.
	Thence we run N. on true line bet. secs 4 and 9.
	On steep N.W. slope, descent 150 ft. to
12.00	Bottom of gulch, drains N. also under quaking asp timber, bears N and S. ascend 15 ft. to
19.00	Spur, projects N., descent. 125 ft. to
31.00	Bottom of ravine drains N.E., also lean quaking asp

Subdivision of 5.2 S, R. 5 E. - Continued.

	timber around 5 rods to top of ridge
40.02	Set a gray granite stone 18 x 10 x 7 ins. 13 ins. in ground for $\frac{1}{4}$ acre marked $\frac{1}{4}$ acre N face, raise mound of stone 2 ft base $\frac{1}{3}$ ft high $\frac{3}{4}$ of cor, Pits impracticable.
45.00	Enter oak brush, marshy and S.
55.00	Top of high ridge marshy and S. descend $\frac{1}{2}$ ft to
80.04	The cor of secs 4, 5, 8 and 9. Standing in edge of oak brush. Land mountainous Soil 3 rd and 4 th rates. clay, gravel and stone. Sharing as per timber, 19 chs, Oak brush 35.04 chs Mountainous land 80.04 chs.
	No $2^{\frac{1}{2}}$ on a random line bet secs 4 and 5.
40.00	Tall 13 lbs $\frac{1}{2}$ ft. of the $\frac{1}{4}$ cor bet secs 4 and 5, which is a sand stone 4 x 12 x 6 ins above ground, marked and witnessed as described by surveyor general.
	Three or more
	$3^{\circ}9'N$ on a true line bet secs 4 and 5.
	On ascending land, through oak brush undergrowth. 60 ft to
5.50	Spur projects N. descend. 75 ft to
21.80	Ravine, drains N. ascend. 40 ft to
26.40	Spur, projects N. descend. 70 ft to
40.00	The cor of secs 4, 5, 8, and 9. Land mountainous. Soil 4 th rate, stony. Oak brush undergrowth 40.00 - chs No timber. Mountainous land. 40.00 chs
Contd.	At this we retrace the N. body of sec 4 and find its bearing to be $3^{\circ}88'13''N$. and its length to be 79.86 chs, also the N. body of sec. 5, and find its bearing to be $3^{\circ}89'41''N$ and its length to be 81.00 chs
Contd.	August 13, 1897.

August 14, 1897: At 7^h 0^m am left. we set off $40^{\circ}39'N$ on the east arc and $14^{\circ}13'N$ on the west arc; and - with one of the instruments - determine a true meridian with the solar, at the cor of secs 8, 9, 16, and 17.

Three or more

Subdivision of T. 2 S., R. 5 E. - Continued

- 40.00 N. on random line bet. secs 8 and 17.
Make careful search for old 1/4 acre cor. but no trace
can be found, therefore we continue our line
N.
- 81.37 Intersect N. and S. line 44 ft N of cor. of secs 7, 8, 17, and 18.
Thence we run
E. on blank line bet. secs. 8 and 17.
- 40.00 Set a black igneous stone 12x10x6 ins 8 ins in ground
for the established 1/4 acre cor., marked 1/4 on N. face,
raise mound of stone 2 ft. base 1 1/2 ft. high N of cor.
Pits impracticable.
- Thence we run
S. 89° 56' E. on true line bet. secs 8 and 17.
On ascending land, through oak brush.
- 48.80 Abrupt ascent, bearing N. and S. 200 ft to
spur projects S. also learn oak brush, bears N. and S. descend. 40 ft
- 65.20 Ravine drains S. also with oak brush, bears N. and S. descend. 70 ft
- 69.70 Ravine drains S. also with oak brush, bears N. and S. ascend. 70 ft
- 75.20 Spur, projects S. descend 35 ft. to
ravines drains S. ascend 10 ft. to
- 78.40 Ravines drains S. ascend 10 ft. to
The cor. of secs 8, 9, 16, and 17.
- ~~41.37~~
~~40.00~~
Land mountainous
Soil 4th rate, stony
Oak brush undergrowth 36.87 chs.
No timber.
Mountainous land, or dense undergrowth 41.37 chs.
- From the cor. of secs. 4, 5, 8 and 9 we run
N. 89° 56' N on a random line bet. secs 5 and 8
- 41.20 Fall 11 ft N of 1/4 section cor. bet. secs 5 and 8 which
is a red sand stone 5x15x9 ins above ground,
marked and situated as described by surveyor
general.
- Thence we run
N. 89° 55' E on a true line bet. secs 5 and 8.
On steep ascending land through quarrying asp
undergrowth, ascend 200 ft to top of spur
- 305.0 Thence along N slope also learn quarrying asp
undergrowth, bearing N and S.
- 35.20 Spur projects N. descend 35 ft to
bottom of ravine, drains N. N. ascend. 20 ft to
- 37.00 The cor. of secs 4, 5, 8, and 9.
- Land mountainous

Subdivision of T. 7 S., R. 5 E. - Concluded

Soil 3rd and 4th rates. gravel and stony
dudging asp undergrowth 30.50 chs.
No timber

Mountainous land 41.20 chs.

August 14, 1897.

General Description

This fractional township contains only mountainous land, except the small area in the bottom of Provo Canyon. The soil in the bottom may be classed as 1st rate but the mountainous portions range from 2nd to 4th rates.

There are a few scattering patches of grazing asp timber but no other kind.

There is but little water in the mountainous part of this township and the land is fit only for grazing purposes.

There are but two settlers in the un-surveyed portion of this township, or the part that comes under our contract.

H. H. Walker Jr., who is a settler of 20 years standing, claims the $\frac{3}{4}$ of the $\frac{7}{4}\frac{1}{4}$ and the $\frac{8}{12}$ of the $\frac{5}{7}\frac{1}{4}$ of sec. 34. H. H. Walker Jr. is a settler in sec. 33.

There are no indications of mineral in the township.

Frank E. Barker

William B. Dougall,

U.S. Deputy Surveyors

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, owing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 }



pgs 3 -

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____
of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 7th, 1898

The foregoing field notes of the survey of *the boundaries of Township South Range East of the Salt Lake Brdg & Meridian*
Utah

executed by *Frank E. Baxter & Williams & Doregall*
under his contract No. *214*, dated *July 21st, 1897*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob F. T. Yerl

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-247

6.3.B.

FIELD NOTES

OF THE SURVEY OF THE

South and East Boundaries

of

Township No. 1 South, Range No. 7 East,

and

Retracement

of

Part of the Salt Lake Base Line

on

The North Boundary

of

Township No. 1 South, Range No. 7 East

Of the Salt Lake Base and Meridian,

in the State of Utah

AS SURVEYED BY

L. E. Butler & William B. Dougall, United States Deputy Surveyors
under this Contract No. 214, dated July 21, 1897

Survey commenced August 16 and August 26, 1897

Survey completed August 18 and August 26, 1897

6-151

S. Distances high	W. Obs. 180-
E. do! - do	6-00-40 ✓
Closing -	17-95 ✓
S. L. B. Contingent	- 6 14-06 ✓

NAMES AND DUTIES OF ASSISTANTS.

Jacob H. Dougall Ch
Thomas H. Shattuck Ch
John H. Straker Ch
James H. Welch Ch
James Street Treasurer
David Gilmore Treasurer
Walter H. McLaughlin Asses
Thomas Bates Asses
George M. Dougall Chaplain
Charles Laddie Chaplain

INDEX DIAGRAM.

Township 1 South, Range 7 East.

6	5	4	3	2	1	15
7	8	9	10	11	12	11
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19	20	21	22	23	24	9
20	20	28	27	26	25	9
21	22	23	34	35	36	8
2	3	4	5	5	6	10

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Frank H. Dugay, Thomas McLaughlin, John W. Steiner, James Stark, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

of the Salt Lake Base and Meridian, in the State of Utah.

John W. Steiner

Frank H. Dugay, Chainm
James Stark, Chainm

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh A. Dougall
Notary Public

WE, James Stark and David B. Graw, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Salt Lake Base and Meridian, in the State of Utah.

James Stark, Moundm
David B. Graw, Moundm

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh A. Dougall
Notary Public

WE, Walter W. McLaughlin and Thomas Slater, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Salt Lake Base and Meridian, in the State of Utah.

Walter W. McLaughlin, Axm
Thomas Slater, Axm

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh A. Dougall
Notary Public

WE, Frank H. Dugay and Charles L. Allis, do solemnly swear that we will well and t perform the duties of flagman according to instructions given me, to the best of our skill and ability, in survey of the Salt Lake Base and Meridian, in the State of Utah.

Frank H. Dugay

Charles L. Allis, Flag

Subscribed and sworn to before me this 1st

day of August, 1897



Hugh A. Dougall
Notary Public

The South and East Boundaries of Township No. 1
South, Range No. 7 E; The West Boundary of Township
No. 8 North, Range No. 6 East; The North Boundary of
Township No. 7 North, Range No. 5 East; and The West
and North Boundaries of Township No. 7 North,
Range No. 4 East;

664

The South and East Boundaries of Township No. 1
South, Range No. 7 East; The West Boundary of
Township No. 8 North, Range No. 6 East; The North Boundary
of Township No. 7 North, Range No. 5 E; and The West
and North Boundaries of Township No. 7 North,
Range No. 4 East;

664

The South and East Boundaries of Township No. 1
South, Range No. 7 E; The West Boundary of Township
No. 8 North, Range No. 6 East; The North Boundary of
Township No. 7 North, Range No. 5 East; and The West
and North Boundaries of Township No. 7 North,
Range No. 4 East;

664

The South and East Boundaries of Township No. 1
South, Range No. 7 East; The West Boundary of Township
No. 8 North, Range No. 6 East; The North Boundary of
Township No. 7 North, Range No. 5 East; and The West
and North Boundaries of Township No. 7 North,
Range No. 4 East;

664

South Boundary of T.1 S., R.7 E.

Survey commenced August 16, 1897, and executed with two N. and S.E. Gurley light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct; and were approved by the surveyor general for Utah, August 2, 1897.

We examine the adjustments of the transits and correct the level and collimation errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, we proceed as follows:-

At the cor. of Tps. 1 and 2 S., Rs. 6 and 7 E. latitude $40^{\circ}41'N$; longitude $111^{\circ}13'W$; in alt off $40^{\circ}41'N$ on the lat. arc, $13^{\circ}28'N$ on the decl. arc of one of the instruments; and, at $3^{\text{h}} 50^{\text{m}}$ p.m. l.m.t.; determine, with the solar, a true meridian and mark a point there of on a plug driven in the ground 5 chs N of cor.

With the second instrument placed over the same initial point, in alt off $40^{\circ}41'N$ on the lat. arc, $13^{\circ}28'N$ on the decl. arc; and at $3^{\text{h}} 50^{\text{m}}$ p.m. l.m.t. determine, with the solar, a true meridian and mark a point thereof on the plug already set 5 chs north of our station. This point is identical with that of the 1st instrument.

At $10^{\text{h}} 0^{\text{m}}$ by our watches which are $24^{\text{m}} 52^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation with the 1st instrument, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5 chs N of our station.

August 16, 1897.

South Boundary of T. 1 S., R. 7 E.—Continued.

August 17, 1897; At 6^h 00^m a.m. l.m.t. we lay off the azimuth of Polaris, $1^{\circ}39'$ to the west and mark the true meridian thus determined with the 1st instrument by a pencil mark on the stake set Aug. 16, on which the true meridian falls 0.2 ins east of the mark determined by the solar of both instruments.

At 7^h 00^m a.m. l.m.t. we set off $40^{\circ}41' N.$ on the lat. arc, $13^{\circ}16' N.$ on the decl. arc of the 1st instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station, this mark falls 0.3 ins east of the true meridian established by the Polaris observations.

At 7^h 05^m a.m. l.m.t. we set off $40^{\circ}41' N.$ on the lat. arc $13^{\circ}16' N.$ on the decl. arc, of the 2nd instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station; this mark falls 0.2 ins east of the true meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations define positions for true meridians, respectively about $0'11''$ west and $0'16''$ east of the true meridian established by the Polaris observations — with the 1st instrument; and $0'11''$ west and $0'11''$ east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8^h 30^m a.m. is $N. 16^{\circ}50' W.$, the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $16^{\circ}45' E.$

We begin at the corner of Twp. 1 and 2 S., R. 6 and 7 E. which is a sand stone 8+6+5 ins. above ground, properly marked and witnessed.

Then we run

E. on a true line bet sec 6 and 31

Over descending land, through gravelly soft timber.

Bottom of gulch, drains S.W. assend. 75 ft. to spine.

Enter pine timber, gravelly soft becomes scattering, hair N & S.

A pine 20 ins diam. on line, marked with a notch on E. & N. sides.

Small spine, projects S. descend 25 ft. to

3.75

7.00

7.20

14.00

South Boundary, S. E. - Continued

- 17.00 Located & placed several across with the rest.
 35.00 Small stones, 50 lbs. S.
 37.52 (Allowing for compass error, I am bound to
 call for 50 lbs on a rock in place, 2 ft. diam.
 This stone stands on which we
 Cut a cross (X) at the exact center point for me
 to mark it on the side of cross; when around
 of stone 2 ft. base 1 1/2 ft. high N. 25° E. 50 lbs weight
 A fine, 20 ins. diam. turn in the dirt now!
 1/2 S. 31 B.T.
 A quantity of small stones were S. 7.5 in. dist.
 marked S. 6 B.T.
 51.00 Top of rocky ridge near N. 7.5 and S. 6. distance 200 ft. now
 54.00 A good, 2 chi. diam. 2 chi. N., in small basin, round.
 57.50 Top of ridge, near N. 7.5. diameter 2 ft.
 66.50 Spring ranch 200 wide 3 in. deep, diam. 8 in. also bottom
 of gulch, round. 100 ft. N.
 77.52 Set a blue lime stone 5x5x8 ins 12 ins in ground
 for curb over 5, 6, 31, and 32, marked with 5 on stone
 on E and 1 notch on N edge, raise mouth S. stone
 2 ft. base 1 1/2 ft. high N. 25° E. 50 lbs weight
 A fine 2 ft. diam. near N. 25° E. 60 lbs dist
 marked T. 1 S. R. 7 E. S. 32 B.T.
 A fine 3 ins. diam. near S. 32 E. 27 lbs dist
 marked S. 2 S. R. 7 E. S. 5 B.T.
 A fine 2 ft. ins. diam. near S. 53 E. 50 lbs dist
 marked T. 2 S. R. 7 E. S. 6 B.T.
 A fine 2 ft. ins. diam. near N. 6 1/2 to N. 7.5 lbs dist
 marked T. 1 S. R. 7 E. S. 31 B.T.
 Land mountainous
 Soil 3rd and 4th rates clay and stone,
 timber, pine and spruce esp.
 Mountainous timber land 77.52 chi.
-
- 18 on a true line bet. nos. 5 and 32
 On ascending is hard, through lime and clay in soft bottom
 750 Stone projects 5 ft. above, even. Turned. 50 lbs.
 36.00 Rock, diam. 8. round 200 ft. N.
 40.00 Set a true limestone 23 x 16 x 4 ins. 15 ins in ground
 for 5, 6, 31, marked with 5 on stone, raise mouth
 S. stone 2 ft. base 1 1/2 ft. high N. 25° E. 50 lbs weight
 A fine 3 ins. diam. near N. 25° E. 60 lbs dist

South Boundary of T. 1 S., R. 7 E. - Continued.

- marked $\frac{1}{4}$ S. 32 B.T.
 A pine 14 ins. diam. base $\text{S. } 120^{\circ}$ chs dist
 marked $\frac{1}{4}$ S. 5 B.T.
- 73.00 S. pine projects S. N. around 100 ft to gulch
- 8.000 Set a blue lime stone $18 \times 12 \times 6$ ins, 12 ins in ground
 for cor. secs 4, 5, 32, and 33, marked with 2 notches
 on N. and 4 notches on edges, raise mound of
 stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impracticable.
 A balsam 12 ins diam. base $\text{N. } 57^{\circ}$, 105 chs dist.
 marked T. 2 S. R. 7 E., S. 5 B.T.
 A quaking asp 12 ins diam. base $\text{N. } 55^{\circ}$, 135 chs
 dist. marked T. 2 S. R. 7 E., S. 32 B.T.
 No other trees large enough to mark.
 Land mountainous,
 Soil red and 3rd rate, sandy loam, gravel and stone
 Timber, pine and quaking asp.
 Mountainous land, 80.00 chs. mainly timbered. Good soil
-
- E. W.L. secs. 4 and 33
- On S.E. slope, through pine and quaking asp timber
 12.00 Gulch, drains S. N. around 250 ft to top of ridge.
 4.000 Set a gray granite stone $22 \times 12 \times 8$ ins 16 ins in ground
 for $\frac{1}{4}$ sec. cor. mark i $\frac{1}{4}$ on N. face. raise mound
 of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impracticable.
 A pine 30 ins diam. base $\text{N. } 30^{\circ}$, 50 chs. dist.
 marked $\frac{1}{4}$ S. 33 B.T.
 A pine 12 ins. diam. base $\text{S. } 56^{\circ}$ E. 50 chs. dist.
 marked $\frac{1}{4}$ S. 4 B.T.
- 42.20 Top of ridge, base N. and S. abrupt precipitous descent
 also bear quaking asp, thence all pine timber
- 64.50 Bottom of Maxwell's Fork Canyon, drains N. 350 ft. low lying,
- 80.00 Set a red granite stone $14 \times 12 \times 4$ ins 9 ins in ground
 for cor. of secs 3, 4, 33, and 34, marked with 3 notches
 on E. and N. edges, raise mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 A pine 6 ins. diam. base $\text{N. } 3^{\circ}$ E. 35 chs dist.
 marked T. 2 S. R. 7 E., S. 34 B.T.
 A pine 5 ins diam. base $\text{S. } 56^{\circ}$. 51 chs dist.
 marked T. 2 S. R. 7 E., S. 3 B.T.
 A pine 6 ins. diam. base $\text{S. } 40^{\circ}$ E. 51 chs dist.
 marked T. 2 S. R. 7 E., S. 4 B.T.
 A pine 12 ins diam. base $\text{N. } 40^{\circ}$ E. 34 chs dist.

South Boundary of T. 1 S., R. 7 E. - Continued.

marked T. 1 S., R. 7 E., S. 33 B.T.

Sand mountainous

Soil 3rd and 4th rates, gravelly loam and stony.

Pine and spruce asp timber, mountainous heavily timbered land 8000 chs.

Aug. 17, At this cor. we set off 13° 1' N on the decl. arc, and at 12:00 m. observe the sun on the meridian, the resulting lat is 40° 41' N.

E.W. secs. 3 and 34

On ascending land, through pine timber.

12.00 Then gentle descent along N slope. 20 ft to

28.00 Spring, 50 lbs N, flows N. then ascend. 100 ft to rocky spur.

40.00 Set aside quartzite 12 x 10 x 6 ins. 8 ins in ground
for 1/4 acre cor. marked 1/4 on N face, nail mound
of stone 2 ft. base 1 1/2 ft high N of cor. Pits impracticable.
A pine 14 ins. diam. bears N. 50° W. 15 lbs dist
marked 1/4 S. 34 B.T.

A pine 10 ins. diam. bears S. 22° W. dist.

marked 1/4 S. 3 B.T.

56.00 Sharp rocky spur, projects N descended 40 ft. to

60.00 Draw, drains N, ascended, pines become scattered. 200 ft to

80.00 Set a gray sand stone 24 x 14 x 7 ins 18 ins in ground
for cor of secs 2, 3, 34, and 35, marked with 4 notches
on N and 2 notches on E edge. nail mound of
stone 2 ft. base 1 1/2 ft high N of cor. Pits impracticable.
A pine 14 ins diam. bears S. E. 28° W. dist. marked
T. 2 S., R. 7 E., S. 2 B.T.

A pine 6 ins. diam. bears S. 60° W. + 2 lbs dist.

marked T. 2 S., R. 7 E., S. 3 B.T.

No other trees within limits

Sand mountainous

Soil 4th rate, very stony

Pine timber 8000 chs.

Mountainous or heavily timbered land. 8000 chs.

E.W. secs. 2 and 35

On ascending land, through scattering pine timber.

9.00 Top of ridge, 75 ft above sec. cor. bear N. & S. descended over sheltering
precipitous east slope.

23.00 Cliff 300 ft high.

35.00 Spring branch 30 ft. wide 2 ins. deep, drains N also bottom

South boundary T 1 S R 7 E - Continued

- Grain. 450 ft below top of ridge. drains N. about
 1.000' Silt and granite stone 20x12x8 ins. 15 ins in ground
 in 4 sec. cor. marked 1/4 on N. face raised mound
 of stone 2 ft base 1/2 ft. high N of cor. Pits impracticable.
 A pine 14 ins. diam. base N 45° E. 10 ft dist. marked
 1/4 S. 35 B.T.
- A pine 16 ins. diam. base S 30° E. 35 ft dist.
 marked 1/4 S. 32 B.T.
- 42.00 Thence along ridge N. slope. 200 ft above ravine
 78.00 Descend on precipitous N.E. slope. 20 ft. to
 8.00 Silt a gray sand stone 20x8x8 ins 15 ins in ground. for
 cor. of sec. 17, 35, and 36, marked with 5 notches on N.
 and 1 notch on E edge, raised mound of stone 2 ft base
 1/2 ft high N of cor. Pits impracticable.
 A pine 8 ins diam base N 60° E. 37 ft dist. marked
 T 1 S R 7 E, S. 34 B.T.
- A pine 4 ins diam base S 45° E. 112 ft dist. marked
 S. 2 S, R. 7 E, S. 1 B.T.
- A pine 4 ins diam. base S. 30° E. 87 ft dist. marked
 S. 2 S, R. 7 E, S. 2 B.T.
- A pine 8 ins. diam. base N 87° E. 20 ft dist
 marked T 1 S R 7 E, S. 35 B.T.
- Land mountainous
- Soil 4th rate, very stony
- Pine live, etc.
- Mountainous or heavily timbered land 2 - chs.

August 17, At 3^h, 0^m p.m. l.m.t. on set of 40° 41' N. Now
 the lat. arc, 13° 08' N on the deck arc of one of the
 instruments and determine a true meridian with the
 solar, at the cor. of sec 17, 35, and 36.

Thence we run

East sec. 1 and 36.

On precipitation N-E slope through scattering
 pine timber.

- 1.950 Spring branch, 2 ft wide 2 ins. deep, drains N. also
 limestone of Center Fork, Smith and Moore house
 Canyon, 150 ft. below, no... around
- 2.950 Spring branch 1 ft wide 1 ins. deep, drains N.W.
 Timber gradually thicker.
- 4.000 Silt a gray sand stone 15x8x6 ins 10 ins in ground
 in 4 sec. cor. marked 1/4 on N. face, raised mound

South Boundary of T.1 S., R.7 E. - Concluded

of stone 2 ft base 1/2 ft. high N of cor. Pitts unpracticable
A pine 16 ins. diam. near N. 40° E. 14 1/2 lbs dist. marked
1/4 S. 36 B.T.

A pine 18 ins. diam. near S. 35 1/2 lbs dist. marked
1/4 S. 1 B.T.

Also top of spur, projects S. 71° E., slight descent
along slope.

43.00 Spring branch 1 1/2 wide 1 in. dia., diam. S. 71° E. also
bottom of draw ascnd.

76.00 Top of ridge near N. E. and S. 71° E. 450 ft above cañon, descended 50 ft. W

8.00 Set a gray sand stone 24 x 8 x 6 ins 18 ins in ground

for cor. of Tps. 1 and 2 S., R. 7 and 8 E., marked
with b-nutches on each edge, a fine mound

of stone 2 ft base 1 1/2 ft high S. of cor. Pitts unpracticable

A pine 8 ins. diam. near N. 10° E. 47 lbs. dist.

marked T.1 S., R.8 E., S. 1 B.T.

A pine 14 ins diam. near S. 40° E. 73 lbs dist.

marked T.2 S., R.8 E., S. 6 B.T.

A pine 18 ins diam. near S. 40° E. 82 lbs dist.

marked T.2 S., R.7 E., S. 1 B.T.

A pine 6 ins. diam. near N. 83° E. 50 lbs dist.

marked T.1 S., R.7 E., S. 36 B.T.

Land mountainous

Soil 4th rate very stony.

Pine timber 8000 chrs.

Mountainous or heavily timbered land 8000 chrs.

August 17, 1897.

East Boundary of T.I.S.R. 7 E.

August 18, 1897: At the cor. of Tps 1 and 2 S R 7 E, at 7th from am. lmt. we set off $40^{\circ}41'N$ on the lat arc, $+2^{\circ}56'W$. on the deck are 2 of the instruments, and determine a true meridian with the solar.

There are now

N. lat 31° and 36°

On ascending land, through pine timber

- 4.00 Top of ridge, bears N.E. and S.W. 50 ft above lmt. cor. descended 15°.
- 12.00 Draw, drains S.W. ascended. $45^{\circ}45'W$.
- 21.00 Spur projects N. descended. $90^{\circ}W$.
- 32.00 Gulch, drains N.W. there around a slope of 38° elevation covered with loose slide rock.
- 40.00 Set a gray sand stone $14 \times 14 \times 4$ ins. 9 ins in ground for 1/4 acre cor. marked 1/4 on W. face, a mound of stone 3 ft base 2 ft high $\frac{1}{2}$ ft cor. Pitts impracticable. A pine 18 ins diam. bears N $32^{\circ}W$ 26 chs dist. marked 1/4 S 36 B.T.
-
- 41.00 A pine 8 ins diam. bears S $17^{\circ}E$. 35 chs dist. marked 1/4 S 31 B.T.
- 41.00 Top of spur; 30 ft above gulch, projects N. abruptly rocky descent. 35°.
- 61.00 Spring branch 2 ft wide 3 ins deep, floor N. there around along W. slope. $40^{\circ}45'W$
- 65.00 Spur, projects N. descended. 100 ft. W.
- 79.75 Spring branch, 2 ft wide 1 in. deep, drains west into lake, 150 chs west. trees mostly cut away, slope.
- 80.00 Set a gray sand stone $18 \times 8 \times 7$ ins 12 ins in ground for cor. surface. 25 30 31 and 36, marked with 1 notch on S and 5 notches on N. Edges, raise mound of stone 2 ft base 1 1/2 ft high $\frac{1}{2}$ ft cor. Pitts impracticable. A pine 12 ins diam. bears N $48^{\circ}E$. 15 chs dist. marked T. I. S. R. 8 E., S. 30 B.T.
-
- 80.00 A pine 14 ins diam. bears S $43^{\circ}E$. 78 chs dist. marked T. I. S. R. 8 E. S. 31 B.T.
-
- 80.00 A pine 8 ins diam. bears S $80^{\circ}W$ 30 chs dist. marked T. I. S. R. 7 E. S. 36 B.T.
-
- 80.00 No trees in sic 25 within limits.
-
- 2nd mountainous
- Soil 4 ft rate. very stony.
- Pine timber 8000 chs.
- Mountainous or heavily land, 8000 chs.

East Boundary of T. 1 S. R. 7 E. - Continued.

N. W. secs. 25 and 30.

On N slope, through pine timber.

3.00 Enter small flat, running N.E. and S.W.

8.00 Leave same, thence descend on N.W. slope, 200 ft. to

35.50 Gulch, drains N. ascend. 200 ft. to top of spur.

40.00 Set a gray granite stone 15x10x7 ins. 10 ins in ground for 1/4 sec. cor. marked 1/4 on N. face
raise mound of stone 2 ft. base 1 1/2 ft. high
N. of cor. Bits impracticable.

A pine 10 ins. diam. near E. 10 mls. dist.
marked 1/4 S. 30 B.T.

A pine 14 ins. diam. near N. 33 mls. dist.
marked 1/4 S. 25 B.T.

45.00 Top of spur projects N. descend 200 ft. to

56.00 Gulch, drains N. ascend. 125 ft. to

65.00 Top of spur projects N. descend 150 ft. to

73.00 Gulch, drains N. ascend. 450 ft. to top of spur.

80.00 Set a gray sandstone 12x10x8 ins 8 ins in ground
for cor. sec 19, 24, 25, and 30, marked with 2 notches
on S and 4 notches on N. edge. raise mound of stone
2 ft. base 1 1/2 ft. high N. of cor. Bits impracticable.
A pine 24 ins diam near N 60° E., 8 mls. dist.
marked T. 1 S. R. 8 E. S 19 B.T.

A pine 10 ins diam near S 78° E., 11 mls. dist.
marked T. 1 S. R. 8 E. S 30 B.T.

A pine 18 ins diam. near S 10° W. 10 mls. dist.
marked T. 1 S. R. 7 E. S 25 B.T.

A pine 6 ins diam. near N 55° W. 12. mls. dist.
marked T. 1 S. R. 7 E. S 24 B.T.

Sand mountainous

Soil 4th rate very stony

Pine timber

Mountainous or heavily timbered land & rocks

N. W. secs 19 and 24

On abruptly ascending land. through pine
timber

17.50 Top of high spur projects, thence descend along
N.W. slope.

39.85 A pine 10 ins diam. on line marked with 2 notches on N. side

40.00 Set a gray granite stone 12x10x6 ins 8 ins in
ground marked 1/4 on N. face raise mound

East Boundary of T 1 S R 7 E - Continued.

- of stone 2 ft. base 1/2 ft. high. cor. Pits impractical.
A pine 5 ins diam, bears S.E. 9 ins dist.
marked 1/4 S. 19 B.T.
A pine 12 ins diam, bears N.W. 5 ins dist.
marked 1/4 S. 24 B.T.
- 8.000 Set a gray granite stone 18x6x6 ins 1/2 ins in
ground for cor. of sec. 13, 14, 19, and 24, marked
with 3 rivets. on N. end Sides & rear round
of stone 2 ft. base 1/2 ft. high. cor. Pits impractical.
A pine 8 ins diam bears N. 20° E. 7 ins dist.
marked T. 1 S. R. 8 E. S. 18 B.T.
A pine 8 ins diam bears S. 45° E. 22 ins dist.
marked T. 1 S. R. 8 E. S. 19 B.T.
A pine 14 ins. diam bears S. 15° E. 27 ins dist.
marked T. 1 S. R. 7 E. S. 2 - 3.
A pine 10 ins diam bears N. 77° W. 30 ins dist.
marked T. 1 S. R. 7 E. S. 15 B.T.

Land mountainous

Alt 3,210 - 3,250

Pine 5 ins diam - on the mountain nearly impossible for cor.
August 18, At this cor. on cut off 20 ft. on the
dell are abt one of the instruments and 12 ft.
m.l.m.t. above the one on the mountain
the resulting lat is 40° 44' 7".

N between 13 and 14

- Over N.E. slope, through pine timber.
- 4.000 Set a gray granite stone 20x14x10 ins 5 ins in
ground, for 1/4 sec. cor. marked 1 on N. side
raise round of stone 2 ft. base 1/2 ft. high.
cor. Pits impractical.
- A pine 8 ins diam bears E + 10° S. dist marked
1/4 S. 18 B.T.
- A pine 12 ins diam bears N. 15° E. dist
marked 1/4 S. 13 B.T.
- 6.9.00 Foot of steep N.E. slope, 1200 ft. below surface along bottom of
Cotton. timber becomes scattering,
- 70.25 Old road, bears N.E. and S.W.
- 73.75 Smith and Moore house crust 5 ft. wide 3 ins deep
flowers N.E.
- 77.00 Same, flowers N.W.

East Boundary of T.1 S., R.7 E.—Continued.

- 8.00 Set a cobble stone 14x12x6 ins. 9 ins in ground
for cor of secs 7, 12, 13, and 18, marked with 4
notches on S. and 2 notches on N. edge, raise
mound of stone 2 ft base 1½ ft high
N. of cor. pits impracticable.
A pine 10 ins. diam. bars N. 10° E. 15 ft dist.
marked T.1 S., R.8 E., S.7 B.T.
A pine 8 ins. diam. bars S. 87° E. 25 ft dist.
marked T.1 S., R.8 E., S.18 B.T.
No other trees within limits.
Land mountainous
Soil 3rd rate
Heavy pine timber 69 chs, scattering pine 11 chs.
Mountainous land or heavily timbered land 8000 chs.
-
- N. bet. secs 7 and 12.
Along bottom of cañon through scattering pine
3.00 Waggon road, bars E. and N.
11.00 East fork of Smith and Moore house Creek 25
ft wide 1 ft. deep, flows N. N.
14.75 Foot of steep S.W. slope, ascend 125 ft to abrupt descent.
2.00 Enter heavy pine timber.
23.90 Abrupt descent. 60 ft to...
25.50 Bottom of narrow gulch, cut 6 ft wide 6 ins. deep
flows W. my abrupt ascent. 75 ft. to
28.00 Top of abrupt ascent, thence quite descent along
W. slope. Also enter quaking asp, pine timber scattering
4.00 Set a gray sandstone 16x12x6 ins. 11 ins in
ground for 1/4 acre cor. marked 1/4 on N. face
raise mound of stone 2 ft base 1½ ft high
N. of cor. pits impracticable.
A pine 10 ins. diam. bars E. 26 ft dist.
marked 1/4 S.7 B.T.
A quaking asp 14 ins diam bars N. 44 ft dist.
marked 1/4 S.12 B.T.
49.00 Spring branch, 2 ft wide 3 ins deep drains N. thence
ascend on W. slope, timber becomes scattering.
80.00 Set a gray conglomerate stone 18x14x4 ins 12 ins in
ground for cor of secs 1, 6, 7, and 13, marked with
5 notches on S. and 1 notch on N. edge, raise mound
of stone 2 ft. base 1½ ft. high, N. of cor. pits impracticable.

East Boundary of T. 1 S. R. 7 E.

Cedar pine diam. base 5 ft. 50 ft. dist. marked
T. 1 S. R. 5 E.; S. 1 B. S.

A mahogany tree diam. base 5 ft. 60 ft. dist. marked
S. 1 B. R. 7 E.; S. 1 B. S.

A fine pine diam. base 7 ft. 10 ft. dist. marked
T. 1 S. R. 7 E.; S. 1 B. S.

No other tree within limits.

Sand-mountainous.

Soil 3rd and 4th rates, sandy loam and stone.

Heavy, fine timber 8-10 ft. cl., quaking asp. and scattering pine
2-3 in. diam.

Mountainous or heavily timbered land 5000 ft.

N. W. sec. 1 and 6

Along N. slope, through scattering pine and quaking asp.

1.50 Drained. 50 ft. to bottom of

4.50 Gulch, drains N. secund. Lean pine, base 8 ft. 7 ft.

10.00 Enter quaking asp. and mahogany, leaning toward N.

14.00 Top of a pine, projects N., also lean quaking asp. Mahogany enters pine
12 ft. from ground.

30.00 Bottom of ravine, drains N. secund. 65 ft. to top of spur.

32.75 Wash, base N. and S. W.

32.00 Spur, projects N. secund. 65 ft. to bottom of gulch.

4.00 Set aside sand stone 2x4 x 6 ins. base 18 ins. in ground for 1/4
sec. on. marked 1/4 on N. face, wire mound of stone 2 ft. 1 in.

11.5 ft. high, 3 ft. 7 in. cor. Pitts impracticable.

A pine 4 ins. diam. base 3 ft. 10 ft. dist. marked 1/4 S. 1 B. S.

A pine 4 ins. diam. base 7 ft. 23 ft. dist. marked 1/4 S. 1 B. S.

43.25 Gulch, drains N. also lean pine enter quaking asp. timber, around 100 ft.
base secund along N. slopes.

70.00 Spur projects N. secund. 75 ft. W.

82.50 Draw, drains N. secund. 35 ft. W.

85.40 Entered S. E. side 17.95 ch. S. 65 W. 1/4 the Bear River.

2.5 ft. N. 2.7 and S. E. which is a lime stone 5 ft. 2 in. above ground
marked and entered as described by surveyor ground.

Set a sandstone 14x18 in. 9 in. in ground in clearing on S. 1 B. S. 7

and S. E. marked 1/4 on S. 1 B. S. 7, with 6 pine on S. 6, and N.

face wire mound of stone 2 ft. base 1 ft. 6 in. high 3 ft. 4 in. cor.

Pitts impracticable. No trees large enough toward.

Sand-mountainous.

Soil 3rd and 4th rates, sand, gravel and stone.

5 in. pine, quaking asp. and mahogany.

Entered a dry cut timber road. August 18 1897.

General Description.

For general description, see general description in notes of the sub-division of this township.

Frank E. Barker

William B. Dougall

U.S. Deputy Surveyor.

- Extra Notes -

Survey of Part of The Salt Lake Base Line, on N. Bdy of T 1 S., R 7 E.

August 26, 1897. The intersections of the E. bdy. of this Tp. and the N. and S. subdivision lines with The Salt Lake Base Line, show discrepancies beyond the limit prescribed by the Manual of Instructions; therefore we trace part of The Salt Lake Base Line, as follows.

We begin at the Base Line cor. of sec 37 and 33 on S Bdy of T 1 S., R 7 E. which is a sand stone 5 x 10 x 6 ins above ground, mashed and weathered as described by surveyor general.

Thence we run

East on or near the S. bdy of sec 33.

Over N. slope.

25.00 Head of hollow, drains N., around, also enter quarrying.

40.05 Fall 75 ft N of the Base Line 1/4 sec. cor. which is a sand stone 5 x 6 x 3 ins. above ground, mashed & weathered as described by surveyor general.

56.00 Top of spur projects N., around, with scattering pine.

62.04 Fall 1.16 chs N of the closing cor of secs 3 and 4, established by us Aug 23.

71.00 Bottom of gulch drains N. around. beam pine timber

78.75 Road, near N. and S.

79.95 Fall 1.41 chs N. of the Base Line cor of secs 33 and 34, which is a sand stone 6 x 10 x 4 ins above ground, mashed and weathered as described by surveyor general; therefore the bearing of this line is 388° 56' E Land mountainous

Soil 3rd and 4th rates

Timber, scattering pine 15 chs, quarrying and 31 chs.

Traversing S. of point 173, Fall 161 S. of the Base Line on N. side of S.R. 7 E., - Continue

- From our point 173 close to the Base Line. Of sec. 33 and
34 we continue our line,
East, near S. side of sec. 34.
On slighter inclining land, along N. slope, . . .
30 Gray sand, near N.E. and S.E., thin, quite distinct.
-0 Bottom, gulch, drains N.W. ascend.
2000 Basal, projects S. distinct,
1500 Gulch, drains S.E. ascend.
3000 Edge of ridge bears N. and S. distinct.
3750 Enter rocky basin.
30.97 Fall 161 S. of the Base Line 1/4 acre cor. which is a
sandstone 4x6 ins. above ground marked and intersected
as described by summer general.
55.00 Around steep N. slope covered with loose shale rock.
32.09 Fall 161 S. ch. N. of closing cor. of sec. 2 and 3, established
by us August 21.
67.00 Thin along N. slope. also some pine timber mainly N.E.S.
80.24 Fall 173 ch. N. of the Base Line in parts 34 and 35,
which is a sandstone 5x10x4 ins. above ground,
marked and intersected as described by summer
general, therefore the bearing of the S. bay of sec. 34 is 38°50' E.
Land mountainous
Soil 3rd and 4th rates
Pine timber 13th class.
August 26; At this cor. we set off 100 ft. on the due
axis of one of the instruments; and, at 12th noon m.
Lmt. drew the line on the midline, the re-
sulting lat. is 40°46' N.

- From our point 173 ch. N. of the Base Line. cor. of sec. 34
and 35 we continue our line
East, near S. side of sec. 35.
On north slope through pine timber
. 5 Hollow, on N. slope, ascend.
50 2 Shallow soil spot, projects N. distinct
37.00 Gulch, drains N. ascend.
40.04 Fall 161 S. of the Base Line 1/4 acre cor. which is
a sandy loam 5x8x4 ins. above ground, marked and
intersected as described by summer general.
40.07 Edge, base - and S. about 4 ins. apart. - low timber.
61.50 Fall 161 S. of the closing cor. and 2, established

amount of Part of the Salt Lake Baseline on N. Bdy. of T. 1 S., R. 7 E. - con

by us August 20.

78.00 Muddy, drains S 75° E, continue desert.

79.89 Fall 13 miles N. of Base Line cor. of sec 35 and 36, which is
a sandstone 8 1/2 x 4 ins above ground, marlled
and interbedded as described by surveyor general,
therefore the S. bdy. of sec 35, bears N 88° 51' E.

Sand-mountainous

Soil 3rd and 4th rates.

Pine timber 48 ooches.

From our point 13 miles N. of Base Line cor. of sec 35
and 36 we continue on line

East near S. bdy. of sec 36.

On steep descending land.

24.00 Enter Smith and Morehouse Cañon drains N.

3.00 Road bears N. and S.

33.00 Enter dense willow undergrowth bearing N. and S.

37.00 Smith and Morehouse cut, 50' wide 1 1/2 ft
flows N.

39.50 Lean willow, bearing N. and S.

39.95 Fall 6 1/2 chs S of the Base Line. 1/4 sec. cor. which is
a sandstone 5+10x10 ins above ground, marlled and
interbedded as described by surveyor general.

Then steep ascent on W. slope.

61.91 Fall 1 1/4 chs S of the closing cor. of Tps. 1 S., R. 7 & 8 E.
established by us August 16.

79.86 Fall 1 50 chs S of the Baseline cor. of Tps. 7 N., R. 7 and
8 E, which is a lime stone 4+10x10 ins above
ground, marlled and interbedded as described
by surveyor general; therefore the S. bdy. of
sec 36 bears N 88° 50' E.

Sand-mountainous,

Soil 3rd and 4th rates

Willow undergrowth 7 1/2 chs.

No timber

August 26, 1897.

Planned by *[Signature]*

Frank E. Baxter

William B. Dougall

U.S. Deputy Surveyor

In addition, the minimum distance of the Salt Lake
 from the S. Bdy. S. R. 7 E. is about the S. Bdy.
 From 32° to 34° 55' N. and its length to 10 miles.
 Minimum of the S. Bdy. From 31° to 33° 55' N. and
 its length is 10 - 12 miles. Between Bdy. S. R. 7 E. &
 19 miles to the confluence of the Salt Lake and 7 E.

Latitude, longitude and distances

Line Survey	Line	Distance	Latitude	Longitude	Distances
S.E. 5 S.R. 7 E.	East	477.52			477.52
E.B. 5 S.R. 7 E.	North	455.40	455.40		
Salt Lake latitude on					
S.E. 5 S.R. 7 E.					
... 35	S85°50' N.	61.91		1.26	61.90
... 38	S85°51' N.	79.59		1.61	79.57
... 34	N89°50' N.	80.20	0.23		80.29
... 33	N88°56' N.	79.95	1.47		79.93
... 32	S85°57' N.	76.60		5.41	76.41
... 31	S85°57' N.	79.48		5.66	79.77
On S.Bdy. 19 E. &					
Salt Lake 36	West	17.49			17.49
E.Bdy. 5 S.R. 7 E.	South	471.73			
Consequently					0.64
Total.			487.17	485.67	477.52
			465.67		476.30
Excluding salt lake and 19 E. & 7 E.			1.05		1.21

The distances on N.Bdy. 19 E. and 19 E. S.R. 7 E. are as
 determined by Survey S.B. Beauchamp, et al., under
 State contract No 213.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and taking the lines and corners described in the foregoing field notes of the survey of _____, wing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

United States Deputy Surveyor,

I, _____, do solemnly swear that, in pursuance of a contract received from
United States Surveyor General for, _____, bearing date of, _____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for, _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

..... meridian, in the of , which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and I should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 5, 1840.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me)
this... day of .., ., 1896.

000000
000000
000000

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Circa 1810. Clark Survey of the
Territory of the State of East Prussia.
The foregoing field notes of the survey of the
Territory of the State of East Prussia,
and Province of West Prussia, with the
and Province of Pomerania.

executed by Frank E. Darter of Milwaukee, WI, foregall
under ~~free~~ contract No. 244, dated July 1st, 1894; having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Sacot 737 Bla
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
_____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

Sub-division Lines
of

Township No 1 South, Range No 7 East,

Of the Salt Lake Base and Meridian,

in The State of Utah

AS SURVEYED BY

L E Baxter and William B Dougall, United States Deputy Surveyors
under their Contract No. 214, dated July 21, 1897

Survey commenced August 18, 1897

Survey completed August 25, 1897

6-161

Salt Lake high 47-18-53 ✓
Claytono - 68-81 ✓

Contingent - - 2-36-09 ✓

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Striper	Chairman
James W. Welsh	Chairman
James Stuart	Member
David B. Gove	Member
Walter W. McLaughlin	Associate
Thomas Slater	Associate
George W. Dougall	Flagman
Charles Lallis	Flagman

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Volume

#

R0247

INDEX DIAGRAM.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of , Chainmen

Subscribed and sworn to before me this }
day of , 189 }


We, and do solemnly swear that we will well and truly perform the duties of moundsmen in the establishing of corners, according to the instructions given us, to the best of our skill and ability, in the survey of , Moundsmen

Subscribed and sworn to before me this }
day of , 189 }


We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of , Axmen

Subscribed and sworn to before me this }
day of , 189 }


I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of , Flagman

Subscribed and sworn to before me this }
day of , 189 }


Subdivision of T. 1 S., R. 7 E.

Survey commenced August 18, 1897, and executed with two N. and S. E. Gentry light mountain transit - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct and were approved by the Surveyor General for Utah, August 2, 1897.

We examine the adjustments of the transits and correct the level and collimation errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a m. and four hours, with a true meridian determined by observations on Polaris, we proceed as follows:-

At the cor. of secs 1, 2, 3, 5, and 36, on S. bdy. of Tp., established by us August 17, latitude $40^{\circ}41'N$, longitude $111^{\circ}07'W$, we set off $40^{\circ}41'N$, on the lat. arc $12^{\circ}48'N$ on the decl. arc, and at $4^{\text{h}}00^{\text{m}}$ p.m. L.M.T. determine with the solar of one of the instruments a true meridian and mark a point there of a plug driven in the ground 5 chs. N of the corner. With the 2nd instrument placed over the same initial point, we set off $40^{\circ}41'N$ on the lat. arc, $12^{\circ}48'N$, on the decl. arc, and at $4^{\text{h}}15^{\text{m}}$ p.m. determine with the solar a true meridian and mark a point thereon on the plug already set 5 chs. N of our station. This point falls 0.3 ins west of that of the 1st instrument.

At $9^{\text{h}}59^{\text{m}}$ by our watches which are $2\frac{1}{2}\frac{1}{2}$ fast of L.M.T. we observe Polaris at eastward elongation with the 1st instrument - in accordance with the Manual of Instructions, and mark a point on the line thus determined, on a plug driven in the ground 5 chs. N of our station.

August 18, 1897.

August 19, 1897: At $6^{\text{h}}00^{\text{m}}$ a.m. L.M.T. we lay off the

Subdivision S. T. I. S. R. 7 E. - Continued

azimuth of S. Star 134° to the west and mark the true midian thus determined with the first instrument - by a pencil mark on the stake set Aug 18, on which the true midian falls identical with the mark determined by the solar of the 1st instrument, and 0.5 ins east of that of the 2nd instrument.

At 9⁰⁰ a.m. Lmt. we set off 40° 41' N. on the lat. arc 123° N. on the decl. arc of the 1st instrument and mark a point in the true midian determined with the solar, by a pencil mark on the stake already set 5 hrs. N. of our station; this mark falls 0.3 ins east of the true midian established by the Polaris observation.

At 7³⁰ a.m. Lmt. we set off 40° 41' N. on the lat. arc 123° N. on the decl. arc of the 2nd instrument, and mark a point in the true midian determined with the solar, by a pencil mark on the stake already set 5 hrs. N. of our station; this mark falls 0.2 ins east of the true midian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations define positions for true midians, respectively about, identical with and 0' 16" east of the true midian established by the Polaris observations with the 1st instrument, and 0' 16" west and 0' 11" east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true midian at 8³⁰ a.m. is N 17° 05' W., the angle thus determined, reduced by the table, page 160, gives the mean mag. decl. 16° 55' E.

The commerce at the cor. of nos. 1, 2, 3, 5, and 36, on Sbdy
is to be here-to-for described.

There are now

No. 011, houses 35 and 36.

On descending N.E. slope, through scattering pasture.
2.0 Three houses on N. slope, 500 ft. to

3.0 Spring branch, 200 wide river bed, chain N 40° E.
thru scrub along E. slope.

Subdivision of T. 1 S., R. 7 E. - Continued

4:00	Set a white sand stone $24 \times 14 \times 6$ ins. 18 ins in ground for 1/4 acre cor. marked 1/4 acre N face, raise mound of stone 2 ft. base 1 1/2 ft high N of cor. Pits impracticable.
	A pine 10 ins. diam. bears N 5° E. 150 ft dist marked 1/4 S 36 B.T.
	A pine 15 ins. diam. bears N 20° N 400 ft dist marked 1/4 S 35 B.T.
5:00	Thence descended along E. slope
6:00	Spring branch + the divide 3 ins deep, divide N.E. thence ascended 100 ft to
8:00	Set a red quartzite stone $14 \times 14 \times 10$ ins. 9 ins in ground for cor. of secs. 25, 36, 35, and 36, marked with 1 notch on S. and E. edge, raise mound of stone 2 ft base 1 1/2 ft high N of cor. pits impracticable
	A pine 7 ins. diam. bears N 45° E. 200 ft dist marked T. 1 S. R. 7 E., S. 25 B.T.
	A pine 13 ins. diam. bears S 65° E 400 ft dist marked T. 1 S. R. 7 E., S. 36 B.T.
	A pine 12 ins. diam. bears S 40° N 53 1/2 ft dist marked T. 1 S. R. 7 E., S. 35 B.T.
	A pine 8 ins. diam. bears N 61° N 29 ft dist marked T. 1 S. R. 7 E., S. 26 B.T.
	Sand mountainous
	Soil 4 th rate, very stony
	Pine timber 8.000 chs.
	Mountainous or heavily timbered land 8.000 chs
4:00	Easton's random line between 25 and 36.
5:00	Set. trees 1/4 acre cor.
7:00	Interest E. boundary of 1/4 of 36th S. of cor. faces 25, 36, 31, and 36, established by us August 18.
	Thence we run
	S. 89° 59' W. bet. secs 25 and 36.
	On descending land through pine timber.
1:00	E. edge of small lake, bears N 150 chs, and S. 75 chs.
3:00	N. edge of same, thence across small flat.
4:00	Thence descended on steep N slope.
3:00	A white pine 30 ins diam for 1/4 acre cor, we mark 1/4 S 25 on N and S 36 on S sides from which
	A pine 16 ins diam. bears N 22° E. 150 ft dist marked 1/4 S 25 B.T.

Subdivision of T. 1 S., R. 7 E. - Continued.

- | | |
|-------|--|
| | A pine 10 ins. diam. base $537^{\circ} N. 42^{\circ} W.$ dist.
marked $1/4 S. 36 B. S.$ |
| 78.00 | Bottom of Cutie Fork of Smith and Morehouse Cañon
also creek 3 ft. wide 2 ins. deep, drains N. around
Timber becomes scattering. Bottom of cañon 800 ft. below river. |
| 79.93 | The cor. sec. 25, 26, 35, and 36, 20 ft. abv. bottom of cañon.
Land mountainous
Soil 4 th rate, my stony
Pine timber 79.93 chs.
mountainous or heavily timbered land 79.93 chs |
| | N 06° 13' W. bet. sec. 25 and 26 |
| | On ascending E. slope, through scattering pine timber. |
| 28.00 | Top of small ridge 90 ft. above sec. base N 25° E and S 25° W, descended with
35.60 Bottom of ravine, drains N 60° E, around on
precipitous S. E. slope, 500 ft. to top of ridge. |
| 40.00 | Set a white sand stone 16 x 10 x 5 ins. 11 ins. in
ground for 1/4 ac. cor. marked 1/4 on N face
raise mound of stone 2 ft. base 1 1/2 ft. high
W. of cor. Pits impracticable.
A pine 15 ins. diam. base $515^{\circ} S. 31^{\circ} W.$ dist. marked
$1/4 S. 25 B. S.$
A pine 10 ins. diam. base $71^{\circ} 20^{\circ} W.$ dist.
marked $1/4 S. 26 B. S.$ |
| 68.00 | Ridge 400 ft. above 1/4 ac. cor. base N 20° E and S 20° W
Pine timber becomes heavy, dense. |
| 80.00 | Set a sand stone 18 x 10 x 6 ins. 12 ins. in ground for cor
of sec. 23, 24, 25, and 26, marked with notches on S
and N notch on E. edges, raise mound of stone 2 ft. base
1 1/2 ft. high N of cor. Pits impracticable.
A pine 14 ins. diam. base $740^{\circ} S. 15^{\circ} W.$ dist. marked
T. 1 S., R. 7 E., S. 24 B. S. |
| | A pine 12 ins. diam. base $560^{\circ} E. 33^{\circ} W.$ dist. marked
T. 1 S., R. 7 E., S. 25 B. S. |
| | A pine 16 ins. diam. base $578^{\circ} W. 48^{\circ} W.$ dist. marked
T. 1 S., R. 7 E., S. 26 B. S. |
| | A pine 24 ins. diam. base $7153^{\circ} N. 23^{\circ} W.$ dist. marked
T. 1 S., R. 7 E., S. 23 B. S. |
| | Land mountainous
Soil 4 th rate, my stony
Pine timber 800 chs. mountainous or heavily timbered land 800 chs |
| | August 19, At this cor., we set off 1° 31' N on the decl. |

Subdivision of T. 1 S., R. 7 E. - Continued.

are of one of the instruments, and at 0^h 03^m
p.m. I. M. L. observed the sun on the meridian
the resulting lat. is $40^{\circ} 43' N.$

N $89^{\circ} 59' E$ on a random line between 24 and 25
4000. Set a temp. 1/4 sec. cor.

80.08 Intersect E. bdy of Tp. 10th N. of cor. sec. 19,
24, 25, and 30, established by us August 18,

Three or four

N $89^{\circ} 57' 37'' E$, true line between 24 and 25

On descending land, through heavy pine timber

4004 Set a gray granite stone 16x10x6 ins. 10 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raised mound
of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable
A pine 12 ins diam. near $76^{\circ} E$. 27 lbs disturbed
1/4 S 24 B.T.

A pine 12 ins diam. near $58^{\circ} E$ 43 lbs dist
marked 1/4 S 25 B.T.

46.06 Bottom of Center Fork of Smith and Moorehouse Cañon,
cut 1/2 the wide 4 ins deep, drains N. Three
abrupt, precipitous ascent. Cañon 850 ft. below sea level

76.05 Top of ridge, bears N $15^{\circ} E$ and $S 15^{\circ} W$. 650 ft. above cañon floor

8.08 The cor. lies 23, 24, 25, and 26. 40 ft. below ridge
Land mountainous

Soil 3rd and 4th rates, gravelly loam and stone.

Heavy pine timber 80.08 chs

Mountainous and heavily timbered land, 80.08 chs.

N $89^{\circ} 57' N.$ 1/8 sec. 23 and 24.

On descending land, through heavy pine timber.

4000 Set a gray granite stone 20x14x6 ins 15 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face. raised mound
of stone 2 ft base 1 1/2 ft high, N of cor. Pits impracticable
A pine 12 ins diam. near $76^{\circ} E$ 14 lbs dist.
marked 1/4 S 24 B.T.

A pine 8 ins diam. near $N. 81^{\circ}$ N, 26 lbs dist.
marked 1/4 S 23 B.T.

77.00 N, Fork of Smith and Moorehouse Cañon, spring branch
10th N. wide 4 ins. dip 10° N $85^{\circ} E$ 550 ft. below sea cor. ascend
Some scattering granite asper among pines.

8000 Set a gray cobble stone 20x10x6 ins 15 ins in ground

Subdivision of T. 1 S., R. 7 E. - Continued.

for cor of sec 13, 14, 23, and 24, marked with 3 notches on S and 1 notch on E edges, raised mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pitt impracticable. A quarry asp 16 ins diam, marr N 59° E 81 1/2 chs. dist, marked T. 1 S., R. 7 E., S. 13 B.T.

A pine 10 ins diam marr S 61° E 11 1/2 chs dist, marked T. 1 S., R. 7 E., S. 24 B.T.

A quarry asp 16 ins diam marr S 39° N. 30 1/2 chs dist, marked T. 1 S., R. 7 E., S. 23 B.T.

A pine 12 ins diam marr N 51° N. 32 1/2 chs dist, marked T. 1 S., R. 7 E., S. 14 B.T.

Land mountainous

Soil 3rd and 4th rates, gravelly loam and stone

Pine timber 9000 chs

Mountainous or heavily timbered land 8000 chs.

S 89° 57' E by random line bet secs 13 and 24.

Set temp 1/4 sec. cor.

Interest & body of Tp. 14th. S of cor. of sec. 13, 18, 19, and 24, established by us August 18.

Thruce or run

N 89° 57' N. on a true line bet secs 13 and 24

On steep N.W. slope, through heavy pine timber

Set a gray granite stone 22 x 16 x 12 ins 16 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raised mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pitt impracticable. A pine 10 ins diam marr N. 2 B.T. dist marked 1/4 S. 13 B.T.

A pine 8 ins diam marr S 16 1/2 chs dist. marked 1/4 S. 24 B.T.

5.500 Center Fork of Smith and Morehouse Canons, creek 20 ft. wide 8 ins. dup, drains T. 1 S. 50 ft. W. from cor. area ch.

5.9.06 Sudge of rock 40 ft. high, marr N. W. and S. E.

7.3.00 Spur, projects N. discord. 60 ft. to

7.9.75 N. branch of Smith and Morehouse Canons, creek 10 ft. wide 4 ins. dup, drains N. discord.

8.0.03 The cor of sec 13, 14, 23, and 24

Land mountainous

Soil 3rd and 4th rates gravelly loam and stone

Pine timber

Mountainous or heavily timbered land, 8000 chs.

Subdivision of T. 1 S. R. 7 E. - Continued

	n ^o 017 but secs 13 and 14.
	Over ascending land, through heavy pine timber, with a few scattering quaking asps.
5.00	Timber becomes scattering.
40.00	Set a blue limestone 18x14x6 ins. 12 ins in ground for 1/4 sec. cor. marked 1/40 in S face, raised mound of stone 2 ft base 1 1/2 ft high 3 1/2 ft cor. Rite impracticable no trees within limits.
60.00	Enter plateau, covered with heavy pine timber, running N. E. and S. W. 60 ft above sec. cor.
80.00	Set a gray sandstone 18x12x2 ins 12 ins in ground for cor. of secs. 11, 12, 13, and 14, marked with 4 notches on S and 1 notch on E. edges, from which A pine 16 ins. diam. mark 740 th 32 1/4 le. dist. marked T. 1 S. R. 7 E., S. 12 B. T. A pine 2+ ins. diam. mark 745 th 26 1/4 le. dist. marked T. 1 S. R. 7 E., S. 13 B. T. A pine 8 ins diam. mark 745 th 16 1/4 le. dist. marked T. 1 S. R. 7 E., S. 14 B. T. A pine 14 ins diam. mark 745 th 16 1/4 le. dist. marked T. 1 S. R. 7 E., S. 11 B. T.
	Sand mountainous
	Soil 2 ^d , 3 ^d , and 4 ^d soils. sandy loam, gravel and stone. Pine timber 8000 chs. mountainous & mainly timber land 8000 chs.
	August 19; At this cor we set off 14° 44' N on the lat. arc, 12° 29' N on the decl. arc of one of the in- struments and at 5 ^h 00 ^m p.m. l.m.t. determined a true meridian with the solar.
40.00	88° 57' E. on a random line bet. secs. 12 and 13.
79.90	Set temp 1/4 sec. cor.
	Entered E. bdy. of T. p. 15 th S of cor. of secs 7, 12, 13, and 18, established by us August 18.
	Then down river
	88° 57' N. on a true line bet. secs 12 and 13.
	Over nearly level land, across bottom of Cañon, through scattering pine timber.
7.00	Gray road, 10 ft wide.
8.50	Cutter Fork of Smith and Moore house Creek, 10 ft wide 1 ft deep, flows N.
9.50	Abrupt ascent on precipitous slope
34.95	Set a gray sand stone 28x14x8 ins 21 ins in

Subdivision of T. 1 S. R. 7 E. - Continued

ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. E. cor. Pits impracticable. No trees within limits.

58.00 Top of ridge, 850 ft above sea level east and S. W. second, elevation first with

65.00 Draw, drains N. E. second

71.00 Enter plateau, bearing N. E. and S. W. same elevation as ridge

74.90 The cor. of secs 11, 12, 13, and 14.

Land mountainous

Soil 2nd and 3rd and 4th rates. sandy loam, gravel and stone

Pine timber 21.96 chs, scattering pine 58.60 chs.

Mountainous land or heavily timbered land 74.90 chs.

August 19. 1897.

August 20, 1897. N. 0° 10' W. B. & L. secs 11 and 12.

On plateau, through heavy pine timber.

9.00 Lean plateau, bearing E. and W. abrupt descent 300 ft to

28.00 Gulch, drains N. E. then gentle ascent along precipitous E. slope. also lean heavy pine with scattering quaking asp and pine timber, parallel to gulch.

40.00 Set a blue lime stone stone 18 x 14 x 5 ins 12 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. E. cor. Pits impracticable. A quaking asp 10 ins diam. bars N. 83° E. 38 ft. dist. marked $\frac{1}{4}$ S. 12 B. T.

A quaking asp 12 ins. diam. bars N. 78° W. 27 ft. dist marked $\frac{1}{4}$ S. 11 B. T.

72.00 Spur projects N. E. 100 ft above gulch, descend 70 ft lower.

78.00 Enter large bed of slide rock. bearing N. E. and S. W.

80.00 Set a gray s and stone 18 x 12 x 6 ins, 12 ins deep in mound of stone, for cor of secs. 12, 11, and 10, marked with 5 notches on S. end 1 notch on E. edge, raise mound of stone 5 ft. base 7 ft. high N. E. cor. Pits impracticable.

A quaking asp 8 ins. diam. bars N. 43° E. 27 ft. dist marked T. 1 S. R. 7 E. S. 1 B. T.

A quaking asp 5 ins. diam. bars S. 64° E. 39 ft. dist marked T. 1 S. R. 7 E. S. 12 B. T.

No other trees within limits.

Land mountainous

Soil 3rd and 4th rates. gravelly and very stony

Loamy pine timber 28.60 chs, scattering pine and quaking asp 52
mound stone and heavy timber 100 chs and 800 chs

Subdivision of T. 1 S., R. 7 E. - Continued

- August 20; At the corners 1, 2, 11, and 12; at 7th hour a.m. I mt. w. set off $40^{\circ}45'N$ on the lat arc, $12^{\circ}17'W$ on the decl. arc of one of the instruments and determine a true meridian with the solar. Then we run N. $89^{\circ}57'E$. on a random line between 1 and 12.
- 4:00 Set temp $\frac{1}{4}$ sec. cor.
- 8:00 Survey E. bdy. of 57th M. N of cor. faces 1, 6, 7, and 12, established by us August 18,
- Then we run West on a true line bet. secs 1 and 12, over abruptly descending land through scattering pine and quaking asp timber
- 11:00 Foot of abrupt descent, also lean timber, with willows running N. and S. thence across Cañon. 175 ft. below.
- 20:30 Main Smith and Morehouse Creek 40 ft. wide 1 ft. deep, flows N.
- 25:00 Lean willows, running N. and S. ascend.
- 27:50 Wagon road, runs N. and S.
- 30:75 Spring branch 34 ft. wide 4 ins. deep, flows N.E.
- 35:50 Thence abrupt ascent. also with scattering pine and quaking asp timber, running N. and S.
- 40:00 Set a gray sand stone $14 \times 14 \times 4$ ins. 9 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
- A quaking asp 8 ins. diam. max N. 189 chs dist marked $\frac{1}{4}$ S. 1 B.T.
- A quaking asp 6 ins. diam. max S. 179 chs dist marked $\frac{1}{4}$ S. 12 B.T.
- 7:47:5 Top of spur, facing N.E. 750 ft above cañon, descend
- 78:00 Enter large bed of slide rock runs N. & runs S. N.
- 8:00 The cor. of secs. 1, 2, 11, and 12.
- Land Mountainous
- Soil 2nd, 3rd, and 4th soils. sandy loam, gravel and stone
- Scattering pine and quaking asp timber 5 b. chs. willow undergrowth 14. chs.
- Mountainous land or dense undergrowth 8:00 chs

N. $89^{\circ}57'E$. on a true line bet. secs 1 and 2.

Over descending slide rock bed, through scattering pine and quaking asp timber

Subdivision J.T.S.R.7 E.—Continued.

6.00	Gulch, drains N.E., ascnd.
9.00	Scars slide work, thence along E slope.
12.00	Enter dense growth of pine and quaking asp timber. Waining E and N.
35.00	Thence descend on N.E. slope. 75 ft. to bottom of gulch.
40.00	Set a gray quartzite stone 18x8x8 ins 17 ins in ground for 1/4 acre. cor. marked 1/4 on N. face, raised mound of stone 2 ft. base 1 ft. high N of cor. Pits impracticable. A pine 10 ins. diam. bears E. 65 ft. dist. marked 1/4 S. 1 B.T. No other trees large enough to mark.
43.00	Bottom of gulch, drains E. ascend 200 ft to
63.00	Spruce projects E, descend. 100 ft to
71.00	Gulch, drains E., ascnd, also learn timber trees E. & N.
81.00	Spruce, projects E. 125 ft. above gulch, descend
83.85	Enter set Salt Lake Valley line on N. body of Tp. 1809 chs 5885 W of the Base Line. cor. of secs 35 and 36, which is a gray sandstone 8 x 12 x 4 ins a 200 ground marked and witnessed as described by surveyor general. Set a gray sandstone 16x8x6 ins 11 ins in ground for closing cor. of secs. 1 and 2, marked C cor. S 1 groove on E and 5 grooves on N faces raised mound of stone 2 ft. base 1 ft. high S of cor. Pits impracticable sand and mountainous Soil 3rd and 4th rates. gravel and stone. Pine and quaking asp timber 70 ft chs. Mountainous or heavily timbered land 83.85

From the cor. of secs 2-3, 34 and 35 on body of Tp., established by us August 17, we run No. 2 N.W. cor. secs 34 and 35.

12.00	On gulch descent, along N. slope, through scattering pine timber.
18.00	Draw, drains N. ascnd. 60 ft to
40.00	Spruce, projects N. descend, thence heavy pine timber. Set a red granite stone 18x14x9 ins. 12 ins in ground for 1/4 acre. cor. marked 1/4 on N. face, raised mound of stone 2 ft. base 1 ft. high N of cor. Pits impracticable. A pine 15 ins. diam. bears S 45° E, 2 ft. dist. marked 1/4 S. 35 B.T. A pine 18 ins diam. bears N 45° W. 15 ft. dist. marked 1/4 S. 34 B.T.

Sub-division of T.I.S.R. 7 E - Continued

41.00	Spring branch of stream 1 in. deep, also bottom of draw, drain S. 30° W. soft yellow sand, around a stone 2 ft. base 1/2 ft. high N. of cor. Bits impracticable.
60.00	Top of ridge, 250 ft. above draw, was N. 68° E. descended
80.00	Sit a gray sand stone 24 x 8 x 6 ins 18 ins in ground for cor. sizes, 26, 27, 34, and 35, marked with 1 notch on S and 2 notches on E edges, same round of stone 2 ft. base 1/2 ft. high, N. of cor. Bits impracticable. A pine 30 ins diam. was N. 16° E. 70 lbs. dist. marked T.I.S.R. 7 E., S. 26 B.T.
	A pine 14 ins diam. was S. 15° E. 53 lbs. dist. marked T.I.S.R. 7 E., S. 35 B.T.
	A pine 10 ins diam. was S. 8° 31' N. 15 lbs. dist. marked T.I.S.R. 7 E., S. 34 B.T.
	A pine 24 ins diam. was N. 62° 11' N. 51 lbs. dist. marked T.I.S.R. 7 E., S. 27 B.T.
	Sand mountainous Soil thin, very stony.
	Pine timber 800 ft. ch. mountainous & hilly land 8000 August 20, At this cor. we set off 12° 45' N. on the decl. arc of one of the instruments, and at 12 ^h 00 ^m m. l. m. above the sun on the meridian, the resulting lat. is 40° 45' N.

40.00	East on a random line bet. sizes. 26 and 35.
50.00	Sit temp 1/4 sec. cor.
80.00	Interest N. and S. line 3000 ft. abov cor. cor. 25, 26, 35, and 36. Same in sun
	N. 80° 59' N. on a true line bet. sizes 26 and 35.
	On arid dry land, through scattering pine timber.
7.00	Top of small ridge, was N. 20° E. and S. 70° N. 70 ft. above cor. around draw, drains N. 30° E. steep ascent, also water-bearing.
18.00	Top of ridge 500 ft. above sea cor. was N. 8. S. descent.
32.50	Sit a gray sand stone 24 x 12 x 8 ins, 18 ins in ground for 1/4 sec. cor. marked 1/4 low N. face, same round of stone 2 ft. base 1/2 ft. high N. of cor. Bits impracticable.
40.00	A pine 7 ins. diam. was N. 43° E. 62 lbs. dist. marked 1/4 S. 26 B.T.
	A pine 8 ins. diam. was S. 41° 31' N. 74 lbs. dist. marked 1/4 S. 35 B.T.
65.25	A pine 14 ins. diam. on line, marked 2 notches on S and N sides
68.00	Swale, drains N. small spring 50 lbs. N. thence gentle

Sub-dominant S.T.S.Q. 7 E - Continued.

ascend along N. slope.

7.000 Thence gentle descent.

8.0.12 The cor. of secs. 26 27, 34, and 35.

Sand mountainous

Soil $\frac{3}{4}$ ft. rate, very stony

Pine timber.

Mountainous or mainly timbered land 8.0.12 chs.

N 60° 37' W. secs 26 and 27.

On surrounding land through heavy pine timber

2.00 Small, drains N.E. around.

6.00 Shrub, steep descent, on N.E. slope. 250 ft. to

20.00 Mulch, drains N.W. thence around along N. slope.

3.0.00 Thence descent on N.W. slope. also quarrying as per away from

4.0.00 Set a gray quartzite stone 20x12x8 ins. 15 ins. in.

ground for $\frac{1}{4}$ acre. cor. marked 1/4 on N. face, raised mound
of stone 2 ft. base $\frac{1}{2}$ ft. high $\frac{1}{2}$ ft. cor. pits impracticable
a quarrying asp 1/2 ins. diam. max $745^{\circ} 32$ lbs dist.
marked 1/4 S. 26 B.T.

A quarrying asp 6 ins. diam. max $760^{\circ} 37$. 32 lbs dist.
marked 1/4 S. 27 B.T.

6.4.50 N. East of Smith and Moorehouse Canyon, Crust 5th wide
4 ins. deep, drains N.E. 400 ft. below sec. cor. around

6.5.00 Lean timber, parallel to canyon

7.0.00 Gentle quarrying asp timber, leaning E. and N.

7.1.00 Draw on S.E. slope, continue ascent.

8.0.00 Set a red sand stone 16x10x9 ins. 11 ins. in ground
for cor. of secs 22, 23, 26, and 27, marked with
2 notches on S. and E. edges; raise mound of
stone 2 ft. base $\frac{1}{2}$ ft. high $\frac{1}{2}$ ft. cor. Pits impracticable
a quarrying asp 5 ins. diam. max $745^{\circ} 32$ lbs dist.
marked 5.1 S. R. 7 E. S. 23 B.T.

A quarrying asp 6 ins. diam. max $745^{\circ} 40$ lbs dist.
marked 5.1 S. R. 7 E. S. 24 B.T.

A quarrying asp 8 ins. diam. max $782^{\circ} 57$ 1/2 chs. dist.
marked 5.1 S. R. 7 E. S. 27 B.T.

A quarrying asp 6 ins. diam. max $787^{\circ} 57$ 1/2 chs. dist.
marked 5.1 S. R. 7 E. S. 22 B.T.

Sand mountainous

Soil $\frac{3}{4}$ and $\frac{4}{5}$ rates, gravelly loam and stone

Pine timber 65 chs., quarrying asp. 16 1/2 chs.

Mountainous or mainly timbered land 8.0.0 chs.

Subdivision of T.S.R. 7 E. — Continued

	5.895° E. on a random line bet. sec. 23 and 26.
4.00	Set temp. 11° sec. cor.
79.98	Entered N. and S. line 12 Mts S. of cor. of sec. 23 and 26. Thence up river
	5.895° N. on a tree line bet. sec. 23 and 26.
	On descending land, through hemlock timber.
13.00	Gulch, drains N. 15° E. 1.50 ft. below sec. cor. across soft soil
30.00	Top of ridge, marshy and S. descended 200 ft. to mine
39.94	Set a gray quartzite stone 18x12x8 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N face, same mound of atom 2 ft. base 1/2 ft. high 1/2 cor. Site impracticable. A pine 10 ins diam was in 80° E. of the dist. marked 1/4 S. 23 B.T.
	A pine 18 ins diam, base 365° N. 60 ft. dist marked 1/4 S. 26 B.T.
46.00	Spring branch, 3 ft. wide 2 ins deep, also bottom of valley, drains N. ascend. 20 ft. to
47.00	Spur, projects N. descend. 80 ft. to bottom of valley
57.00	Leave pine timber, passing N East and S. N.
57.50	W. fork of Smith and Moorehouse Canoe first 50 ft. wide 6 ins. deep, drains N.E. ascend. Also south quaking asp timber.
79.98	The cor. of sec. 22, 23, 26 and 27, 200 ft. above creek. Land mountainous Soil 3rd and 4th antis, gravel and stone Pine timber 57 chs., quaking asp 22 48 chs., mountainous or nearly timberland 74 chs. August 20; At this cor., at 4 p.m. I. m. L. set off 40° 45' N on the lat. arc, 12° 09' N. on the decl. arc of one of the instruments, and determined a <u>true</u> <u>meridian</u> with the solar ar.

N. 0° 2' 37" W. bet. sec. 22 and 23

26.00	On ascending land, through quaking asp timber
40.00	Top of ridge, 300 ft. elevation N. 16° and 3 W. also leave quak- ing asp, enter pine timber, same bearing. descend
	Set a gray sand stone 12x10x6 ins. Fine in ground for 1/4 sec. cor. marked 1/4 on N face, surrounded of stone 2 ft. base 1/2 ft. high 1/2 cor. Site impracticable
	A pine, 12 ins diam was 34° 32' 24" dist marked 1/4 S. 23 B.T.
	A pine 14 ins diam was 33° 17' 7" dist

Subdivision of T. 1 S., R. 7 E. - Continued.

		marked 1/4 S. 22 B. S.
57.00	Gulch, drain E, 200 ft below ridge, meadow soft to	
76.00	Top of ridge, near S. 21. and E. discord. 50 ft. to	
8.000	Set a blue lime stone 16x12x6 ins 11 ins in ground for cor. of secs 14, 15, 22, and 23, marked with stones on S. and 2 notches on E. edges raise mound of stone 2 ft base 1 1/2 ft high, N of cor. Pit impracticable A pine 10 ins. diam. near N 31° E. 125 ft. dist. marked T. 1 S. R. 7 E. - S. 14 B. S.	
	A pine 24 ins. diam. near S 40° E 108 ft. dist.	
	marked T. 1 S. R. 7 E. - S. 23 B. S.	
	A pine 18 ins. diam. near S 10° N 89 ft. dist.	
	marked T. 1 S. R. 7 E. - S. 22 B. S.	
	A pine 8 ins. diam. near N 50° N. 165 ft. dist.	
	marked T. 1 S. R. 7 E. - S. 15 B. S.	
	Land mountainous	
	Soil 2 nd and 3 rd rates sandy loam, and gravel	
	Timber, pine 54 chs., quaking asp 26 & 20 chs.	
	Mountainous or heavily timbered land 8.00 chs.	
	August 20, 1897.	

		August 21, 1897: N 89° 56' E on a random line between 14 and 23
+0.00	Set stump 1/4 acre cor.	
79.82	Interset N. and S. line 34 ft. N. of cor. of secs. 13, 14, 23, and 24. Three in run.	
	S 89° 57' N on a true line between 14, and 23.	
	On abruptly ascending land, through scattering pine and quaking asp.	
39.91	Set a blue lime stone 20x6x6 ins, 15 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft base 1 1/2 ft high N of cor. Pit impracticable A quaking asp. 3 ins diam. near N 63° W. 34 ft. dist. marked 1/4 S. 14 B. S.	
	A quaking asp. 8 ins diam. near S 45° W. 10 ft. dist. marked 1/4 S. 23 B. S.	
47.00	Top of ridge near N. and S. also leave quaking asp scattered pine timber, running N and S. ridge, 100 ft. above us. cor.	
79.82	The cor. of secs 14, 15, 22, and 23, 200 ft. below ridge Land mountainous Soil 2 nd and 3 rd rates.	
	Timber, pine 32 & 27 chs., scattering pine and quaking asp, 47.00 chs.	
	Mountainous or heavily timbered land 79.82 chs.	

Subdivision of T. 1 S., R. 7 E. - Continued

- N 082° 07' W across 14 and 15
 On descending land through heavy pine timber
 11.00 Bottom of gulch, drains N. 12.5° W. below sec. cor. ascend 75 ft. to
 19.00 Top of ridge, bears E and N. descend. 100 ft. to
 36.00 Bottom of gulch, ascend, also heavy pine timber.
 40.00 Set a red sand stone 16x12x6 ins 11 ins in ground
 for 11/4 sec. cor. marked 11 on N. face, dig pits
 18x18x12 ins N. and S. of cor. 3 ft. dist., maximum
 depth 3 ft. base 1 1/2 ft. high N & S of cor.
 58.00 Enter pine and quaking asp timber, mainly E and N.
 67.00 Top of ridge 250 ft. above sec. cor. bears E and N. descend. thru all pine timber
 84.00 Set a red sand stone 18x6x6 ins 12 ins in ground
 for cor. S. of sec. 10, 11, 14, and 15, marked with 4
 notches on 3 and 2 notches on 1. edges. rain
 mound of stone 2 ft. base 1 1/2 ft. high N & S of cor.
 Pits impracticable
 A pine 16 ins diam. bears N. 63° E. 148 ch. dist.
 marked T. 1 S., R. 7 E., S. 11 B.T.
 A pine 18 ins. diam. bears S. 82° E. 128 ch. dist.
 marked T. 1 S., R. 7 E., S. 14 B.T.
 A pine 15 ins. diam. bears S. 84° N. 170 ch. dist.
 marked T. 1 S., R. 7 E., S. 15 B.T.
 A pine 8 ins. diam. bears N. 57 1/4° N. 76 ch. dist.
 marked T. 1 S., R. 7 E., S. 10 B.T.

Sand mountainous

Soil 2nd and 3rd rates, sandy loam and gravelly
 Timber, pine 36 chs, pine and quaking asp 22 chs.

August 21; At this cor. at 9th ave. sec. line I. m. set
 off 40° 44' N. on the lat. arc, 115° 4' N. on the
 decl. arc of one of the instruments, and de-
 termined a true meridian with the solar.

mountainous or heavily timbered land 5000 chs.

- N 89° 57' E on a random line bet. sec. 11 and 14.
 40.00 Set. temp 1 1/4 sec. cor.
 80.06 Intersect N and line 9 1/2° N. of the cor. of sec. 11, 12, 13, and 14.
 Then on line
 N 89° 57' N. on a true line bet. sec. 11 and 14.
 One plateau, through heavy pine timber
 7.00 Lean plateau, mainly N and S. descend.
 22.00 Bottom of gulch, drains N. E. 200 ft. below sec. cor. and 200 ft. from
 lean timber mainly N and S.

Subdivision of T.1 S.R.7 E.-Continued.

- 40.03 Set a gray sand stone $18 \times 12 \times 6$ ins. 12 ins in ground
for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N face, raised mound of
stone 2 ft base $1\frac{1}{2}$ ft high N of cor. Site impracticable.
- 61.00 Top of ridge, bears N.E. and S.W. discord. 75 ft to rec. cor.
- 72.00 Enter pine timber, bearing N.E. and S.W.
- 80.06 The cor. of secs. 10, 11, 14, and 15.
Sand mountainous
Soil 2nd and 3rd rates, sandy loam and gravel
Pine timber 45 chs.
Mountainous or heavily timbered land 80.06 chs.

- N. 082° W. rec. secs. 10 and 11.
On descending land, through pine timber
- 16.00 Draw, bears N.E. ascend, also leave pine timber.
- 35.00 Enter quarry asp timber, bearing E. and N.
- 39.00 Leave quarry asp, enter pine timber bearing E and N.
- 41.00 Set a gray sand stone $16 \times 12 \times 7$ ins, 11 ins in ground
for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N face, raised mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{3}{4}$ ft. on. Site impracticable.
A pine 14 ins diam bears N. 80° E. 5 ft dist, marked
 $\frac{1}{4} \$11 B.T.$
A pine 8 ins diam, bears S. 85° W. 13 ft dist.
marked $\frac{1}{4} \$10 B.T.$
- This cor. stands on top of ridge bears N.W. and
S.E. thence abrupt descend. 450 ft. to rec. cor.
- 84.00 Set a gray sand stone $14 \times 6 \times 6$ ins. 9 ins in ground
for cor. of secs 3, 3, 10, and 11, marked with 5 notches
on Sand 2 notches on Edges, raised mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high N of cor. Site impracticable
A pine 24 ins. diam. bears N. 65° E. 15 ft dist
marked T.1 S.R.7 E. \$2 B.T.
A pine 10 ins diam bears S. 10° E. 8 ft dist.
marked T.1 S.R.7 E. \$11 B.T.
A pine 20 ins diam bears S. 85° W. 16 ft dist
marked T.1 S.R.7 E. \$10 B.T.
- No other tree large enough to mark.
- Sand mountainous.
Soil 2nd 3rd and 4th rates, sandy loam and gravel
Pine timber 57 chs, quarry asp, 4 chs. Mountainous land 60 ft
August 21; At this cor., in set off $115\frac{1}{2}$ ft on the declivity
from the instrument, and at 12th ave on L. M. T. determine
the angle on the meridian, the resulting lat is $40^{\circ}45'$ N.

Subdivision of T. 1 S. R. 7 E. - Continued.

4000	\$8959' E on a random line bet. sec's 2 and 11. Surface 1/4 sec cor.
8000	Intersect N and S line 8 ft. below surface 1, 2, 11, and 12 Three or more
	N 84° 56' W on a true line bet sec's 2 and 11.
2000	On descending slide rock bed, through scattering pine and quaking asp. timber Bottom of slide rock ravine, 15 ft. below sec. cor. drains N. 30° E. arched
13.00	Enter heavy pine timber, bearing N and S. abrupt ascent.
32.40	Top of ridge 1000 ft. above sec. cor. bearing N. 83° S. abrupt descent
4000	Set a gray sandstone 18x10x5 ins 15 ins in ground for 1/4 sec cor. marked 1/4 on N. face, raised mound of stone 2 ft base 1/2 ft high N. of cor. Pit impracticable A pine tree, diam. base 7 1/2 in. 31 lbs. dist. marked 1/4 S. 1/4 E.
	A pine 5 ins diam. base 5. 13 lbs. dist. marked 1/4 S. 1/4 E.
45.00	Abrupt descent on N. slope.
73.00	Bottom of Shingle Mill Cañon, 900 ft. below Ridge, drains N. 50° W. ravine.
8000	The cor. of sec's 2, 3, 10, and 11. Sand mountainous
	Sil 4 th nat., very strong.
	Timber, many pine 67.00 chs, scattering pine and quaking at. 13 chs.
	Mountainous or heavily timbered land 8 v. 00 chs.

	N 50° 2' W on a true line bet sec's 2 and 3.
	On descending land through pine timber
3.00	Three arched along E slope.
2000	Abrupt descent, on slide rock slope facing N. E. timber becomes scattering.
30.00	Shingle Mill Cañon, 500 ft. below. sec. cor., drains N. W. three descend along bottom of Cañon on loose slide rock.
4000	Set a gray sand stone 22x14x8 ins 16 ins in ground for 1/4 sec cor. marked 1/4 on N. face, raised mound of stone 2 ft base 1/2 ft high Pit impracticable No trees within limits.
51.00	Three arched along N. slope covered with loose slide rock, also dead pine, with scattering quaking asp. timber, bear N. 91° and S. E.
82.25	Intersect Salt Lake Bar line on N. bdy. of G. P., 18.20 chs. N. 89° 50' W. of the Bar line cor. of sec's 34 and 35, which is a sandstone 5x10x4 ins. above ground, marked and intersected as described by surveyor general.
	Set a gray sand stone 24x14x5 ins. 18 ins in ground for closing cor. of sec's 2 and 3, marked C cor D with 2 grooves on E and 4 grooves on N. face. raised mound of stone 2 ft base 1/2 ft high S. of cor. Pit impracticable Tree too small to mark. This cor. is about 90 ft. above 1/4 sec. cor.
	Sand mountainous

Subdivision S. 5 T. 9 R. 7 E. - Continued

	Soil at rate, my story.
	Same, heavy pine, 2 ft. oche, nothing finer than 3 lbs., grading up 3125 lbs.
	Mountains or heavily timbered land 3325 lbs.
	From the engr. nos. 34, 33 and 34, on S. edge. 85 ft. established by us August 17, 1897. Crosses between 33 and 34.
	On descending land, through heavy pine timber S. edge of lake 5 chs. N. and 3 chs. E. 150 ft. below site cor.
25.5	N. edge. of same.
35.50	Set a white sand stone 14x10x6 ins 9 ins in ground for 14 sec. cor. marked 1/4 on N. face, nice mound of stone 2 ft. base 1 1/2 ft. high 3 ft. off cor. Pit impracticable
	A pine 30 ins diam. was S. 82° E. 2 1/2 ft. dist. marked 1/4 S. 34 B. S.
	A pine 1 ins diam. was N. 19° W. 2 1/2 ft. dist. marked 1/4 S. 32 B. S.
60.00	Spring branch - 1/4 sec. wide 5 ins deep, 300 ft. below site cor. drains N. W. there quite ascent along N. slope
80.00	Set a red sand stone 18x14x12 ins, 1/2 ins in ground for 1/2 sec. 27, 25, 33 and 34. marked with 1 notch on S. and 3 notches on E. edge, nice mound of stone 2 ft. base 1 1/2 ft. high 3 ft. off cor. Pit impracticable
	A fine pine diam. was N. 10° E. 1.00 ft. dist. marked T. 5 R. 7 E. 32 7 B. S.
	A fine 11 ins diam. was S. 41° E. 5 ft. dist. marked T. 5 R. 7 E. 3.34 B. S.
	A pine 7 ins diam. was S. 38° W. 8 ft. dist. marked T. 5 R. 7 E. 33 3 B. S.
	A pine 14 ins. diam. was N. 29° W. 12 ft. dist. marked T. 5 R. 7 E. 3.2 8 B. S.
	Land mountainous
	Soil, my story 4 ft. rate
	Heavy pine timber
	Mountainous or heavily timbered land 8000 lbs.

August 21, 1897.

August 22, 1897, East on a random line between 27 and 34
- 1/2 sec. 1 ft. temp 1/4 sec. cor.

80.00 Cut across 1/4 sec. 10 lbs. N. of eng. cor. 26734 mds.

Three or four
N. 89° 56' 07" on a true line between 27 and 34.

Subdivision of T. 1 S, R. 7 E., - Continued

- On descending land, through heavy pine timber
 2.00 Slope, 10 ft. below sec. cor. drains N. & - ascend.
 6.7.0 A pine 18 ins diam, on lime, marked 2 switches on S.E. sides
 13.0.5 A pine 36 ins diam. on lime, marked 2 switches on E and W sides
 32.0.0 Top of ridge, 175 ft. above sec. cor. bears N. & and S.E. drains.
 34.0.0 A pine 12 ins. diam. on lime, marked 2 switches on E and W sides
 +0.0.3 Set a red granite stone 17x10x8 ins 11 ins in
 ground for 1/4 sec. cor. marked 1/4 on N face
 raise mound of stone 2 ft. base 1/2 ft. high
 No cor. Pits impracticable
 a pine 12 ins. diam. bears N. & 12 1/2 ft. dist. marked 1/4 S. 27 B.T.
 a pine 14 ins. diam. bears S. & 16 ft. dist. marked 1/4 S. 34 B.T.
 43.0.7 A pine 13 ins. diam. on lime, marked 2 switches on E and N. sides
 8.0.6 The cor. sec. nos. 27, 28, 33, and 34.
 This cor. is 500 ft. below top of ridge.
 Land mountainous
 Soil, sandy loam, gravel and stone, $\frac{1}{2}$ rd and $\frac{1}{4}$ rd rates.
 Heavy pine timber
 Mountainous or heavily timbered land 8 o'clock
 August 22; At this cor., at 8th sec. a.m. dip E. west
 of $4^{\circ} 45'$ N. on the lat arc, $11^{\circ} 35'$ N. on the decl arc
 of one of the instruments, and determine a true
meridian with the solar.

N. $0^{\circ} 2' 31''$ Lat. sec. 27 and 28.

- On ascending land, through heavy pine timber
 7.00 Thru many lime along S. slope, 40 ft. above sec. cor.
 14.0.0 Spring branch side with 2 ins. dup on N. slope.
 11.50 Dry road near E. and N.
 23.0.0 Abrupt descent on N. N. slope.
 25.0.0 Bottom of gulch, 50 ft. dup chains S. abrupt ascend
 +0.0.0 Set a white sand stone 12x8x6 ins. 8 ins in
 ground for 1/4 sec. cor. marked 1/4 on N face
 raise mound of stone 2 ft. base 1/2 ft. high 2 ft.
 No cor. Pits impracticable.
 A pine 30 ins diam bears N. 5° E. 15 ft. dist.
 marked 1/4 S. 27 B.T.
 A pine 12 ins. diam bears N. $46^{\circ} 9'$ W. 48 ft. dist.
 marked 1/4 S. 28 B.T.
 This cor. stands on top of spur 150 ft. above
 gulch, projects N. descended
 47.0.0 Bottom of ravine 70 ft. below, spur, drains N. ascend

Subdivision of T. 1 S. R. 7 E. - Continued.

58.00	Spur, 100 ft. above ravine projects N. down Bottom of ravine 100 ft. below spur, spring channel 3 ft. wide 3 ins. deep, channel N. ascend. 200 ft. to top of ridge.
74.00	Set a white sand stone 18 x 10 x 6 ins 12 ins in ground for cor. of rcs. 21, 22, 27, and 28, rounded with smoother on S and 3 notches on E edges; raised mound of stone 2 ft. base 1/2 ft. high. N. of cor. Pits impracticable.
	A pine 10 ins diam. near N. 45° E. 2 1/2 lbs dist. marked T. 1 S. R. 7 E. S. 2 1/2 B. T.
	A pine 13 ins. diam. near S. 45° E. 7 1/2 lbs dist. marked T. 1 S. R. 7 E. S. 2 1/2 B. T.
	A pine 8 ins. diam. near S. 46° N. 3 1/2 lbs dist. marked T. 1 S. R. 7 E. S. 2 1/2 B. T.
	A pine 6 ins diam. near N. 50° E. 1 9-1/2 lbs dist. marked T. 1 S. R. 7 E. S. 2 1/2 B. T.
	Sand mountainous Soil, gravelly and stony loam, 3 1/2 acres. Heavy pine timber Mountainous or heavily timbered land 8.00 lbs che.
44.00	S. 89° 56' E. on a random line bet. rcs. 22 and 27.
79.96	Set stump 1/4 sec. cor.
79.96	Entire N. and S. line 12 lbs S. of cor. of rcs. 22, 23, 26, and 27 Thence in line
12.0	S. 89° 59' N. on a true line bet. rcs. 22 and 27.
21.50	On slightly descending land, through scattering granite and timber Small draw, channel S. 20° E. ascend abruptly.
39.98	Enter plateau 250 ft. above, see cor., covered with heavy pine timber, bears N. and S.
	Set a white sand stone 18 x 6 x 6 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on face, raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable
	A pine 12 ins. diam. near N. 3 1/2 lbs. dist marked 1/4 S. 2 1/2 B. T.
56.00	A pine 6 ins. diam. near S. 3 1/2 lbs dist marked 1/4 S. 2 1/2 B. T.
74.00	Leave plateau, thence descend gently along east S. ridge bearing N. from plateau
74.00	Thence descend on S. N. slope of ridge.
79.96	The cor. of rcs. 21, 22, 27, and 28.

Susquehanna G. S. & R. T. - Continued

Sub-mountainous.

Soil substrate, gray brown.

Timber pine 55% to the scattering growth up to the mountainous or heavily timbered land 70% also

4.00 to 7.00 feet, area 2 and 3.

On steep ascending land, through pine timber.

200 Top ridge, more N 75° E and N 75° W. Second 2 ft.
100 Bottom grain, diame N 80° N, second soft to
15.00 Spur, projects N. Second soft to bottom of valley
35.00 Log road base N 75° N and N 75° E.

400 Set a blue lime stone 14x10x5 ins. 2 ins. in ground
for 116 sq. feet. marked 1/4 on N face, wire marked
1/4 on S. face 1 1/2 ft. high 1/2 ft. cor. bite upper surface
A pine 14 ins. diam, more N 20° E, 20 ft. the dist.
marked 1/4 S. 2 1/2 B.S.

A pine 20 ins. diam more N 50° N. 20 ft. the dist.
marked 1/4 S. 2 1/2 B.S.

45.00 Bottom of grain diame N 70° N, second. 20 ft.
55.00 Spur, projects N 70° N, second soft to
57.00 Bottom of gulch, diame N 70° N. second. 20 ft. the dist.
58.00 Log road, base N 70° N, N 70° E.
60.00 Spur projects N.

70.00 Abrupt, circuit, on N. slope. also entire fire killed
timber with a few trees still alive.
90.00 Set a blue lime stone 14x10x5 ins. 2 ins. in ground
for cor. of size 15, 16, 21, and 27, marked with 3 initials
on S. and E. edges, wire marked 1/4 on S. face 2 ft.
1/2 ft. high 1/2 ft. cor. bite upper surface 170 ft. distance
A pine 15 ins. diam more N 50° E, 20 ft. the dist.
marked S. 1/2 B.S., S. 1/2 B.S.

A pine 30 ins. diam more S 5° E. 20 ft. the dist.
marked S. 1/2 B.S., S. 1/2 B.S.

A pine 15 ins. diam more S 50° E. 20 ft. the dist.
marked S. 1/2 B.S., S. 1/2 B.S.

A pine 6 ins. diam more N 10° N. 20 ft. the dist.
marked S. 1/2 B.S., S. 1/2 B.S.

And mountainous.

Soil red and yellowish gray brown color.

Pine timber 50% to the scattering growth up to the

August 22. At this point off the trail there

are some old remnants and stumps.

Subdivision of S. 1 S., R. 7 E. - Continued.

	obrun the run on the meridian the resulting lat. is $40^{\circ}44'N.$
40.00	N. $89^{\circ}54'E.$ on a random line bet. sec 15 and 22. Set temp $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line & below conf. of sec 14, 15, 22, and 23. Thus our run
	N. $89^{\circ}50'W.$ on a true line bet. sec 15 and 22. On descending land through pine timber.
1.50	Swale, drains N. ascend 30 ft to
4.00	Top of spur, projects N. descended on N.W. slope 150 ft to draw
70.00	Enter fine killed timber, running N. and S.
23.00	Draw, drains N. ascend 75 ft to
31.00	Spur, projects north descended 175 ft. to draw
40.02	Set a red granite stone 16 x 6 x 6 ins 11 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised round of stones $\frac{2}{3}$ ft base $\frac{1}{2}$ ft. high $\frac{1}{2}$ ft cor. Pitts impracticable. A pine 8 ins diameter tree S. $65^{\circ}W.$, 2 ft dist marked $\frac{1}{4}$ S. 32 B.T. A pine 8 ins diameter tree N. 85 ft dist marked $\frac{1}{4}$ S. 15 B.T.
52.00	Draw, drains N. ascend, 80 ft to
60.00	Top of spur, projects N. descended 90 ft to
69.00	Draw, drains N. ascend 75 ft to
77.00	Thus along N. slope,
80.04	The cor of sec 15, 16, 21, and 22. Land mountainous Soil 3 rd and 4 th series, gravelly and stone Pine timber 80 ft chs.
	Mountainous or heavily timbered land 80.04 chs.
	N. $89^{\circ}37'W.$ bet. sec 15 and 16.
	On abruptly descending land, through fine killed timber with a few pines still alive, descended 250 ft to
19.00	Bottom of canyon, drains W. also log road, mass E. sand. abrupt ascent, also lean pine timber.
40.00	Set a blue lime stone 24 x 18 x 6 ins 18 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised round of stones ft. base $\frac{1}{2}$ ft high $\frac{1}{2}$ ft cor. Pitts impracticable
50.00	Top of abrupt ascent, intergradation, leaning E. and N. also interquarting esp. same leaning. Station 300 ft above sea level.

Subdivision of T. 1 S. R. 7 E. - Continued.

- 8.000 Set a white sand stone 14+2x8 ins. 9 ins in ground
for cor. of secs. 9, 10, 15 and 16, marked with 4 notches
on S and 3 notches on E edges. same mound
stone 2 ft base 1 1/2 ft high N. S. cor. Pits impracticable
A quarrying asp, 5 ins. diam, was N 49° E 23 1/2 ins. dist.
marked T. 1 S. R. 7 E., S. 10 B.T.
A quarrying asp, 3 ins. diam, was S 45° E 11 1/2 ins. dist.
marked T. 1 S. R. 7 E., S. 15 B.T.
A quarrying asp, 4 ins. diam, base S 16° W 26 1/2 ins. dist.
marked T. 1 S. R. 7 E., S. 16 B.T.
A quarrying asp 6 ins. diam was N 90° W. 32 1/2 ins. dist.
marked T. 1 S. R. 7 E., S. 9 B.T.

Sand mountainous

Soil 3rd and 4th rate, gravelly loam and stone.

Pine timber 19.02 chs; quarrying asp 30 cches.

Mountainous or heavily timbered land 8.000 chs.

S. 8.950 E. on a sandstone line bet. secs. 10 and 15.

4.000 Set stump 1/4 Sec. cor.

Intersection and S line 7 1/2 ins. S of cor. of secs. 10, 11, 14 and 15.

Three on one

N. 8.953 W. on a tree line bet. secs. 10 and 15.

On gently descending land, through pine timber

1.7.00 Draw, drains N. E. ascend.

3.2.00 Ridge, 10 ft. above stream, base N. S. lean pine timber same bearing.

3.9.96 Set a red sand stone, 14+8x6 ins. 9 ins in ground
for 1/4 acre. cor. marked 1/4 on N face same mound

of stone 2 ft. base 1 1/2 ft. high N for Pits impracticable

5.7.00 Enter quarrying asp timber, base N. and S. Also
bottom of gulch, drains N. ascend

7.6.00 Enter plateau, mainly N and S. same elevation as ridge

7.9.92 The cor. of secs. 9, 10, 15 and 16.

Sand mountainous

Soil 2nd rate, sandy and gravelly loam,

Timber, pine 32 chs; quarrying asp 23 1/2 chs.

Mountainous or heavily timbered land 7.9.92 chs.

No. 2 N. W. sec. 9 and 10.

On plateau, through quarrying asp timber.

Lean plateau, many E and N. descended. 150 ft. to

gulch, drains N. S. ascend, also lean timber same bearing.

Spurs project N. S. 90 ft. above gulch, descend 200 ft. to gulch.

Sub-division of S. 1, T. 8, R. 7 E. - Continued.

- 4.00 Set a white sand stone 16x8x5 ins. 11 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise mound
of stone 2 ft base 1 1/2 ft high 1/8 cor. Pits impracticable
- 7.00 Bottom of rocky ravine, drains N 30° E, thence
ascend along N slope. 90 ft to.
- 8.00 Set a white sand stone 24x18x2 ins 18 ins in ground
for cor. of secs. 3, 4, 9, and 10, marked with scratches on
Sand 3 scratches on Edges, raise mound of stone 2 ft.
base 1 1/2 ft high 1/8 cor. Pits impracticable.
- Sand mountainous
Soil 3rd and 4th rates, gravelly loam, and stone.
Quaking asp timber 2200 chs.
Mountainous or heavily timbered land 8.00 chs.
- August 27, 1897.

- August 23 1897. S. 8 1/2 E. on a random line between 3 and 10.
- 4.00 Set temp. 1/4 Sec. cor.
- 8.02 Intersect N. and S. line 16 ft E. S. of cor. of secs. 2, 3, 10, and 11.
Thence up river
West on a tree line between 3 and 10
Climb abruptly ascending land, through pine timber
- 8.00 Top of ridge, 300 ft above sea level pine, with quaking asp.
Some scattered pine among quaking asp. timber.
- 18.55 A pine 30 ins diam. on line, marked 2 scratches on E and W sides.
- 35.00 Bottom of gulch, drains S. A. thence along S. slope.
- 44.01 Set a gray sand stone 12x10x6 ins 8 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise mound
of stone 2 ft base 1 1/2 ft high 1/8 cor. Pits impracticable
A quaking asp 12 ins. diam. near N. 14 ft. dist.
marked 1/4 S. 3 B.T.
- A quaking asp 14 ins. diam. near S. 4 ft. dist.
marked 1/4 S. 10 B.T.
- 47.00 Descend on S. slope
- 55.00 Bottom of gulch, 35 ft. below ridge; drains N. also have quaking
asp and pine timber, descend. 100 ft to
- 69.00 Top of ridge, near S. 15 E., and N. W. descend. 100 ft to
- 8.02 The cor. of secs. 3, 4, 9, and 10.
Sand mountainous
Soil 3rd and 4th rates. gravelly and stone
Timber pine 800 chs, quaking asp and pine 5000 chs
Mountainous or heavily timbered land 8.00 chs.

Subdivision of T. 1 S., R. 7 E. - Continued

August 23; At 7th a.m. I set out off 4045 ft.
on the lat. arc, 11° 16' N on the decl. arc & one of the
instruments, and determine a true median with
the solar, at the cor. of secs. 3, 4, 9, and 10.

Then we run

N 80° 25' W. on a tree line bet. secs. 3 and 4.

On acceding land. 25 ft. to

Top of spur projects N 35° W. decud 80 ft. to

Bottom of gulch, drains N.W. acced.

Set a white sand stone 16 x 12 x 5 ins. 11 ins in ground
for 1/4 acre cor. marked 1/4 on N face, raised round
of stone 2 ft. base 1 1/2 ft. high N of cor. Pits impracticable

Enter quarrying asp. timber, bearing E and N.

52.00 Top of ridge, 375 ft. above ravine, base N 50° W S 55° E decud.

58.00 Head of ravine, drains N 20° E. thence nearly
level along E. slope.

68.00 Enter scattering fine timber bearing E and N. also
decud on N.E. slope. 125 ft. to

82.49 Intercept Salt Lake Base line on N. Bdy. of Stp. 1791 chs.
N 88° 56' W of the Baseline cor. of secs. 33 and 34 which is
a sand stone 6 x 10 x 4 ins above ground, marked
and situated as described by surveyor ground.

Set a gray sand stone 18 x 12 x 8 ins. 12 ins in ground
for clearing cor. of secs 3 and 4. marked C on S with
3 grooves on E and N faces, raised round of
stone 2 ft. base 1 1/2 ft. high S. of cor. Pits impracticable

and no trees within limits

Solid mountainous

Soil 3rd and 4th rates, gravel and stone

Timber, scattering pine. 1449 chs, quarrying asp. 21 chs.

Mountainous or heavily timbered land 82.49 chs.

From the cor. of secs. 4, 5, 32 and 33 on S. Bdy. of Stp. is
established by us August 17, we run
N 083° 27' W bet. sec. 32 and 33.

On acceding land, through pine and quarrying
asp. timber.

11.00 Top of ridge, bearing E and N. 150 ft. above sec. cor. decud.

Enter heavy pine timber, bear quarrying asp. near Eward.

Set a white sand stone 14 x 16 x 6 ins. 9 ins in ground
for 1/4 acre cor. marked 1/4 on N. face, raised round
of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable

Subdivision of T 15 R 7 E - Continued.

- Three or more
\\$8957⁴/A. on a true line between 21 and 28.
On descending S. W. slope, through pine timber.
3.000 Bottom of ravine, drains N 65° W. spring branch,
3 miles wide 3 ins. dup, thence along N slope, 300 ft. from
3.9.99 Set a gray sand stone 18 x 8 x 6 ins 1 $\frac{1}{2}$ ins. in
ground, for 1/4 sec. cor. marked 1/4 on N face
raise round of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N
of cor. Pits impracticable
A pine tree diam. near N 40° E., 16 ft. dist.
marked 1/4 S. 21 B.T.
A pine 12 ins diam near S. 22 the dist
marked 1/4 S. 28 B.T.
42.00 Thence descend on N. slope, also beam timber
42.60 Lambut's Saw Mill 2 1/3 miles S.
54.85 N a good road, bears N 40° W. and S 40° E.
55.00 Bottom of Maxwell's Fort Canyon, cut 10 miles wide
4 ins. dup, drains N 40° W. 600 ft. below a cor. about now.
7.9.98 Thence cor. of sect. 26, 21, 28, and 29, 450 ft. from L. M. T.
-Laid Mountains.
Soil 3rd and 4th rates. gravel and stone.
Pine timber 42.00 chs. mountainous & mainly timbered land 70% etc.
August 23, At this cor; at 4th rate from L. M. T.
an set of 40° 43' N on the lat. line, 11° 06' N. on the
decl. arc of one of the instruments and determine
a true meridian with the solar.

N. 0° 0' 3¹¹/4" W. on a random line between 26 and 21.
4.000 Make careful search for old 1/4 sec cor. but not trace
if it can be found; therefore we continue our
line north.
83.11 Intersect Sand N. line 4.54 chs. E. of the cor of sec
16, 17, 20, and 21, which is a gray sand stone
10 x 12 x 6 ins above ground marked and
written as described by surveyor general.
Three or more
S. 0° 0' 3¹¹/4" E. on a blank line between 20 and 21.
4.000 Set a red sand stone 18 x 12 x 10. ins. 12 ins. in
ground for re-established 1/4 sec cor. marked 1/4 on
N. face raise round of stone 2 ft. base 1 $\frac{1}{2}$ ft. high
N. of cor. Pits impracticable.

Subdivision of T. 1 S. R. 7 E. - Continued.

mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{2}$ of cor. Pits impracticable.
 A pine 10 ins. diam. bears N 73° E. 19 lbs dist
 marked $\frac{1}{4}$ S. 28 B.T.
 A pine 16 ins. diam. bears $N. 10^{\circ} E.$ 11 lbs dist
 marked $\frac{1}{4}$ S. 33 B.T.
 50.00 Top of ridge, bears N and S. abrupt descent.
 75.00 Bottom of gulch, drains N. 35° E. ascend. soft to.
 80.08 The cor. of sec. 28, 29, 32, and 33.
 Land mountainous
 Soil 3rd and 4th rates gravel and stone
 Pine timber
 Mountainous or heavily timbered land 80.08 chs.

N. 0° 03' W. bet. sec. 28 and 29.
 On land sloping abruptly east, through pine
 timber.
 34.00 Abrupt descent on N.E. slope. 90 ft to
 37.50 Bottom of ravine, drains E. abrupt ascent,
 Set a white sand stone $18 \times 8 \times 6$ ins 12 ins in
 ground, for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on N face, raised
 mound of stone 2 ft base $1\frac{1}{2}$ ft high $\frac{1}{2}$ of cor.
 Pits impracticable.
 A pine 13 ins diam bears S. 83° E. 29 lbs dist
 marked $\frac{1}{4}$ S. 28 B.T.
 A pine 10 ins diam bears N. 69° W. 21 lbs dist.
 marked $\frac{1}{4}$ S. 29 B.T.
 48.00 Thence along E slope. 210 ft. above ravine
 71.00 Thence descend on N.E. slope, also bear timber bears N.W.
 80.00 Set a blue lime stone $18 \times 12 \times 6$ ins 12 ins in ground
 for cor. sec. 20, 21, 28, and 29, marked with 2
 notches on S and 4 notches on E edge, raised
 mound of stone 2 ft base $1\frac{1}{2}$ ft high $\frac{1}{2}$ of cor.
 Pits impracticable. 100 ft. below point of descent.
 Land mountainous
 Soil 3rd and 4th rates. gravel and stone.
 Pine timber 71 chs.
 Mountainous or heavily timbered land 80.00 chs.

S. $89^{\circ} 57'$ E. on a random timber bet. sec. 21 and 28.
 Set stumb $\frac{1}{4}$ sec. cor.
 Distances and S. line 13 lbs S of cor. sec. 27, 28, 29.

Subdivision of T 1 S R 7 E - Continued.

- Three or more
S 89° 57' N. on a true line between sec 21 and 28.
On descending S. W. slope, through pine timber.
- 3.0.00 Bottom of ravine, drains N 65° W. spring branch,
30 ft wide 3 ins deep, thence along N slope, 300 ft. new
3.9.99 Set a gray sand stone 18 x 8 x 6 ins 1 1/2 ins in
ground, for 1/4 sec. cor. marked 1/4 on N face
raise round of stone 2 ft. base 1 1/2 ft. high. N
of cor. Pit impracticable
A pine tree diam. max N 40° E, 16 ft. dist.
marked 1/4 S. 21 B.T.
A pine 12 ins diam marked 2.2 like dist.
marked 1/4 S. 28 B.T.
- 4.2.00 Thence descended on N. slope, also bear timber.
Lambert's Saw Mill 2.0.13 1/2 S.
- 5.4.85 N agar road, max N 40° W and S 40° E.
- 5.5.00 Bottom of Maxwell's Fort Canyon, east 10 ft. wide
4 ins deep, drains N 40° 7' 1.600 ft below sec cor. abrupt turn
7.9.98 Thence N. of sect. 2, 6, 24, 28, and 29, 450 ft. above canyon
- Laid Mountains. F.
Soil 3rd and 4th rates. gravel and stone.
Pine timber 42 1/2 chs. mountainous or hilly timberland 79 1/2 chs.
- August 23; At this cor; at 4th rate from line F
an set of 40° 43' N on the lat. arc, 110° 6' N. on the
decl. arc of one of the instruments and determine
a true meridian with the solar.

- N. 0° 3' N on a random line between sec 26 and 31.
- 4.0.00 Made careful search for old 1/4 sec cor. but no trace
of it can be found; therefore we continue our
line north.
- 8.3.11 Between S. and N. line 4.54 chs E. of the cor of sec
16, 17, 20, and 21, which is a gray sand stone
10 x 12 x 6 ins above ground marked and
written as described by surveyor general.
Three or more
S. 0° 3' E. on a blank line between sec 20 and 21.
- 4.0.00 Set a red sand stone 18 x 12 x 6 ins 1 1/2 ins in
ground for re-established 1/4 sec. cor. marked 1/4 on
N face raise round of stone 2 ft. base 1 1/2 ft. high
N of cor. Pit impracticable.

Subdivision of T. 1 S. R. 7 E. - Continued.

Three or more

\$ 663' E. on true line bet. secs 20 and 21

On descending S. E. slope

47.00 Bottom ravine, with wagon road in bottom, drains
N. 40° E. 80 ft. below 1/4 sec. cor. ascend 400 ft. to

83.11 Intersect E and N line 4.54 ch. N. 89° 56' W. of the cor. sec.
20, 21, 28, and 29 from which we obliterate all

markings appertaining to secs 20 and 21.
Set a red sand stone 20 x 10 x 8 ins 15 ins in
ground for closing cor. of secs 20 and 21, marked
CC on N. 2 grooves on S. and 4 grooves on E. faces,
raise mound of stone 2 ft. base 1 1/2 ft. high
No cor. pits impracticable.

Sand mountainous

Soil 3rd and 4th rates, gravel and stone

No timber

Mountainous or heavily timbered land 43.11 chs.

August 23, 1897.

August 24, 1897. F from the cor. of sec 15, 16, 21 and 22, running
S. 89° 57' W. on a random line bet. secs 16 and 21

44.37 Fall 3 1/5 chs S. of the 1/4 sec. cor. bet. sec 16 & 21, which is a red
sand stone 16 x 24 x 15 ins above ground marked
and intimated as described by surveyor general.

Three or more

East on a true line bet. secs 16 and 21.

On ascending land, around about 300 ft. to closing cor.

16.00 Open project N. 37° E. three along north slope.

Also enter fire filled timber, marked N. 70° 14' and S. 20° E.

44.37 Intersect N. and S. line 3 1/5 chs N. 89° 56' W. of cor. of sec 15, 16, 21, and
22 from which we obliterate all markings appertain-
ing to secs 16 and 21.

Set a gray lime stone 13 x 8 x 7 ins. 8 ins in ground
for closing cor. of secs 16 and 21, marked CC on N.
3 grooves on S. and E. faces, raise mound of stone
2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
No trees within limits

Sand mountainous.

Soil 3rd and 4th rates, gravel and stone

Fire filled timber 2.8.37 chs.

Mountainous land or heavily timbered land 44.37 chs.

Subdivision of T. I. S. R. 7 E. - Continued

The intersection of the line mt. recs 16 and 21, with that mt recs 15 and 16, shows a discrepancy beyond the limit prescribed by the manual of instructions, therefore,

From the cor of recs 9, 10, 15, and 16, we run N on a true line mt. recs. 9 and 16.

On plateau, through quarry asp timber
dead timber, bearing N. and S.

16.00 Dead plateau, bearing N. and S., steep descent. 250 ft. from
18.00 Dead plateau, bearing N. and S., steep descent. 250 ft. from
40.00 Set a red sand stone 36 x 15 x 4 ins 27 ins in
ground for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
Pile impracticable.

43.50 Bottom of ravine, drains N. around. 200 ft to
60.00 Top of ridge, bearing N. and S. steep descent. 300 ft to
84.00 Intercept N and S line 3.36 ch \$500.00 The cor of recs
8, 9, 16, and 17 which is a white sand stone 5 x 6 x 4
ins above ground, marked and witnessed as described
by surveyor general, from which we obliterate all
markings appertaining to recs 9 and 16,

Set a white sand stone 18 x 2 x 5 ins 12 ins in ground
for closing cor. of recs 9 and 16, marked C.C., with 4 grooves
on E. and 4 grooves on S. face, surrounded of stone
2 ft. base $1\frac{1}{2}$ ft. high E. of cor. Pile impracticable.

Land mountainous

Soil 3rd and 4th rate gravel and stone
Quarry asp timber 10 or 12 ch.

Mountainous or heavily timbered land \$4.00 chs

From the cor of recs 3, 4, 9, and 10, we run
West, on a true line mt. recs. 4 and 9.

On steep N slope, around 60. ft. w.

1.50 Bottom of ravine, drains N $20^{\circ} W$. around 100 ft. w.

1.00 Spur projects N $20^{\circ} W$, around 100 ft. w.

16.00 Bottom of ravine, drains N $10^{\circ} W$. around 125 ft. w.

29.00 Top of spur, projects N, around 100 ft. w.

34.00 Bottom of ravine, drains N $10^{\circ} W$. abrupt ascent. 175 ft. bridge

40.00 Set a gray quartzite stone 14 x 7 x 6 ins 9 ins. in ground
for $\frac{1}{4}$ rec. cor. marked $\frac{1}{4}$ on N. face, raise mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pile impracticable.

48.00 Top of ridge, bears N $30^{\circ} W$ and S. $30^{\circ} E$. around.

55.00 Enter many pine timber bearing N. and S.

Subdivision of T. 1 S., R. 7 E., Continued

6.000	Lean pine enter quaking asp timber, leaning N. & S.
7.000	Lean timber, leaning N. & S.
75.00	Gulch, drains S. N. 250 ft. below ridge ascend 500 ft. to
83.54	Intersection N. and S. line 359 chrs. 500 ft. of cor. of secs. 4, 5, 8 and 9, which is a sand stone 5 x 7 x 4 ins. above ground, marked and intersected as described by surveyor general from which we obliterate all markings appertaining to secs. 4 and 9.
	Set a gray sand stone 15 x 8 x 7 ins. 10 ins. in ground for closing cor. of secs. 4 and 9, marked C.C. with 4 grooves on E and 5 grooves on S faces, raise mound of stone 2 ft. base 1 1/2 ft. high E of cor. It's impracticable. Land mountainous
	Soil 3 rd and 4 th rates, gravel and stone Timber, pine 1600 chrs, quaking asp, 1000 chrs. mountainous or heavily timbered land 83.54 chrs.

August 24: At the cor. of secs. 5, 6, 31, and 32 on T. Bdy. of
T.p. established by us August 17, we set off 10° 50' N. on
the decl. arc of one of 15° instruments, and at 12th min.
m. l. m. observe the sun on the meridian, the
resulting lat is 40° 41' N.

Three w. sun

N 0° 47' N. bet. secs. 31 and 32.

One gully descending land through pine and quak-
ing asp timber, 25 ft. to

5.00	Bottom of gulch, drains S. N. 250 ft. ascend. 500 ft. to ridge
24.00	Lean timber, leans E. and S. N.
41.00	Set a gray lime stone 18 x 10 x 8 ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. It's impracticable
43.00	T. p. of ridge, leans E. and S. N. Enter heavy pine timber same leaning, descend. 300 ft. to
59.00	Spring branch 1 ft. wide 1 in. deep, drains N. 20° E. thence gully ascend along E. slope.
80.00	Set a gray lime stone 20 x 18 x 12 ins. 15 ins. in ground for cor. of secs. 2, 9, 30, 31, and 32, marked with 1 notch on S. and 5 notches on E. edges, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. It's impracticable A pine 20 ins. diam. leans N. 80° E. 6 3/4 ft. dist. marked T. 1 S., R. 7 E., S. 29 B. T.
	A pine 36 ins. diam. leans S. 85° E., 2 8/11 ft. dist.

Subdivision of T.I.S.R.7 E.—Continued

marked T.I.S.R.7 E. S.32 B.T.

A pine 12 ins diam. max S. 20° N. 56 ft. dist
marked T.I.S.R.7 E. S.31 B.T.

A pine 24 ins. diam. max N. 48° N. 67 ft. dist
marked T.I.S.R.7 E. S.30 B.T.

Land mountainous.

Soil 2nd and 3rd rates. sandy loam and gravel

Pine, pine 37.00 chs, pine and quaking asp, 24.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Exit on a random line bet. sec. 29 and 32.

46.00 Set a stump 1/4 sec. cor.

Interest N and S line 6 ft. S of corf. sec. 28, 29, 32, and 33.

Thru. in row

S 845° N on a true line bet. sec. 29 and 32.

On ascending ridge. cliffs... through pine timber

Top of ridge, bears N. and S. 400 ft. above sec. 29. discnd.

Set a gray lime stone 14x12x5 ins 9 ins in ground

for 1/4 acre. cor. marked 1/4 on N face, raise mound of stone 2 ft. base 1 1/2 ft. high 7 1/2 in. Pits impracticable

A pine 16 ins. diam. max N 6 ft. dist, marked
1/4 S 29 B.T.

A pine 10 ins. diam. max S. 70° E. 14 ft. dist
marked 1/4 S 32 B.T.

56.00 Bottom of ravine, drains N. 60° E. 300 ft. below ridge sec. 29 and 30 ft. to

65.00 Top of spur, projects N. E. discnd. 70 ft. to

74.00 Bottom of ravine, drains N. 40° E., ascend. 100 ft. to

The cor. of secs 29, 30, 31, S. 52

Land mountainous

Soil 3rd and 4th rates. gravel and stone

Pine timber 80.00 chs.

Mountainous or heavily timbered land 80.16 chs.

To 804 1/2 ft. bet. sec. 29 and 30.

On ascending land, through pine timber

Top of ridge, max N. E. and S. 75° N. 60 ft. above sec. cor. ascend

Bottom of ravine, 300 ft. below ridge, drains N. 40° E. hence gentle

ascnt along steep E slope. timber more scattering.

Set a crystallized lime stone 14x10x8 ins 9 ins in ground, for 1/4 sec. cor. marked 1/4 on N face raise

mound of stone 2 ft. base 1 1/2 ft. high, 7 1/2 in. cor.

Pits impracticable

Subdivision of T. 1 S. R. 7 E. - Continued.

- A pine 18 ins. diam. near N 42° E 32 miles dist.
marked 1/4 S. 29 B.T.
- A pine 32 ins. diam. near N 45° W. 225 chs dist.
marked 1/4 S. 30 B.T.
- 57.00 Spur, projects N. 80° E. abrupt descent, 100 ft to
bottom of ravine, diam. N. 80° E. abrupt ascent 200 ft to
- 63.50 Bottom of ravine, diam. N. 80° E. abrupt ascent 200 ft to
- 8.00 Set a a blue lime stone 18x12x6 ins. 12 ins in
ground for cor. of secs. 19, 20, 29 and 30, marked
with 2 notches on S. and 5 notches on E. edges,
raise mound of stone 2 ft. base 1 1/2 ft. high 3/8 cor.
Pits impracticable.
no trees within limits.
- Sand mountainous.
Soil 3rd and 4th rates. gravel and stone
Timber, heavy pine 37 chs, scattering pine 43 chs
mountainous or heavily timbered land 8.00 chs
-
- N. 89° 57' E. on a random line bet. secs. 20 and 29.
Set tump 1/4 sec. cor.
- 8.0.04 Intersect N. and S. line 16 miles N. of cor. of secs. 20, 21, 28 and 29.
Thence, nor more
N. 89° 56' 37" on a true line bet. secs. 20 and 29.
On ascending land,
- 2.50 Top of ridge, near N. and S. 50 ft above mean ground 270 ft from
the closing cor. of secs. 20 and 21.
- 4.54 Bottom of ravine, diam. N. 10° E. around 300 ft
- 21.00 Top of ridge, near N. 25° E. around 250 ft to ravine.
- 38.00 Set a gray lime stone 18x10x5 ins. 12 ins in ground
for 1/4 sec cor. marked 1/4 on N. face, raise mound
of stone 2 ft. base 1 1/2 ft high 3/8 cor. Pits impracticable
- 46.00 Ravine, diam. N. 30° E. around, also inter scattering
pine timber parallel to gulch.
- 8.0.04 The cor. of secs. 19, 20, 29, and 30, 300 ft above ravine
Sand mountainous.
Soil 3rd and 4th rates. gravel and stone
Scattering pine timber 34.04 chs.
mountainous or heavily timbered land 8.04 chs.
-
- N. 0° 4' W. on a random line bet. secs 19 and 20.
Set tump 1/4 sec. cor.
- 8.0.05 Intersect Q. and W. line at cor. of secs. 17, 18, 19 and 20.
which is a sand stone 6x12x6 ins above ground

Subdivision of T 1 S R 7 E - Continued

marked and intersected as described by ~~my previous~~
Since we are
So 84° E on a true line bet. rcs. 19 and 20.
On ascending land, through quarrying as follows
2.000 Lean quarrying abt inter pine timber boundary & cor. 19
Top of spur 150 ft, above river project E. end., also lean timber.
Set a gray sandstone 16x10x4 ins 11 ins. in ground
for 1/4 sec. cor. marked 1/4 on N. face, raised mound
of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
Bottom of ravine drains E. ascend, also inter, cutting
pine timber, near E. end N. ravine, 175 ft below spur.
Top of ridge, bears N. 60° E. and S. 60° E. 200 ft above ravine drain.
8.0.06 The cor. rcs. 19, 20, 29, and 30, 50 ft below ridge
Land mountainous
Soil 3rd and 4th rates, gravel and stone
Timber, pine 45.0 chs, quarrying abt 200 chs.
Mountainous or heavily timbered land. 8.0.06 chs.

August 24, 1897.

August 25, 1897; Before completing the subdivision
of this Tp. we must trace the line between rcs. 17 and 20
and find its bearing to be N. 87° 47' E. and its length
to be 7555 chs.

From the cor. of rcs. 29, 30, 31, and 32, we run
N. on a random line bet rcs. 30 and 31.
4.000 Set temp 1/4 sec. cor.
7.7.45 Intersect N. bdy. of Tp 10 1/2 ft N. of cor. of rcs. 29, 30, 31, and 32,
which is a sand stone 12x8x8 ins above ground, properly
marked and intersected.
Since we are
N. 89° 51' E on a true line bet rcs. 30 and 31.
On descending land through quarrying abt timber
Bottom Right Fork of Swift's Cannon, drains N. and
17.50 Top of spur, projects N., descend. 125 ft to
29.53 Bottom Left Fork of Swift's Cannon, drains N. ascend
37.45 Set a white sand stone 16x8x6 ins 11 ins. in ground
for 1/4 sec. cor. marked 1/4 on N. face, raised mound
of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
A quarrying abt 4 ins. diameter bears N. 3° E 13 1/2 ft dist
marked 1/4 S. 30. B. T.

A quarrying abt bins. diameter bears S. 16° 47' 3 sides

Subdivision of T. 1 S., R. 7 E., Concluded.

dist. marked $\frac{1}{4}$ S. 31 R. 7.

54.50 Top of ridge, bearing N and S. also bear quaking asp, interspersed timber same bearing, discord.

77.45 The cor. of sec. 29, 30, 31, and 32; 200 ft. below ridge.
Land mountainous

Soil $\frac{2}{3}$ rd and $\frac{4}{5}$ th rates, sandy loam, gravel and stone.
Timber, pine $2\frac{1}{2}$. 9.5 chs, quaking asp 54.50 chs.
Mountainous or heavily timbered land. 77.45 chs.

From the cor. of sec. 19, 20, 29, and 30, we run
 $5.8956^{\circ} N.$ on a random line betw. sec. 19 and 30.

+ 0.00 Set true $\frac{1}{4}$ Sec. cor.

77.30 Enter N. Bdy. of Tp. 19 like S of cor. of sec. 19, 24,
25 and 30, which is a quartzite stone $6 \times 6 \times 6$ ins
above ground, properly marked and witnessed.
Thence in line

$5.8956^{\circ} E.$ on a true line betw. sec. 19 and 30.

On ascending land, through quaking asp timber

24.50 Top of ridge, 175 ft. above in line N. N. E. thence discord on
N. E. slope, 50 ft. to

29.50 Head of draw, drains N. thence gradual ascent along
N. slope, through small quaking asp and down timber

37.30 Set a gray sand stone $14 \times 8 \times 5$ ins. 9 ins in ground
for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound
of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pit impracticable
Pit too small to mark.

62.50 Top of ridge bears $N. 75^{\circ} E.$ and $S. 75^{\circ} N.$ also bear
quaking asp, interspersed pine timber, bearing
N. E. and S. N. discord. 100 ft to

77.30 The cor. of sec. 19, 20, 29, and 30.

Land mountainous

Soil $\frac{3}{4}$ rd and $\frac{4}{5}$ th rates

Timber, scattering pine 14×8 chs, quaking asp $2\frac{1}{2}$ chs.
Mountainous or heavily timbered land 77.30 chs.

1.5 m. on a.m. August 25, 1897,

Pratt's

or the morning

General description

General Description.—

This township contains only mountainous land
and the soil ranges from $\frac{2}{3}$ rd to $\frac{4}{5}$ th rate.

Many the whole, is covered with heavy pine or
a dense growth of quaking asp timber, but the mountainous

are so steep and rough, that only a small n-
lative portion of the timber is accessible, which alone
makes the township valuable. No part of it is fit
for agriculture, and little, for grazing purposes.

The southern part is fairly well watered, but
the north-central portion has very little water.

There are no settlers in the portion that
comes under our contract.

There are no indications of mineral in the township.

Frank E. Baxter

William B. Dougall

U.S. Deputy Surveyor.

By tracing the meridional sec line bet axes 4 and 5
we find its length to be 78.54 chs. and its bearing to
be N. $5^{\circ}0'37''$ W.; also the latitudinal sec. line bet axes
18 and 19, we find its length to be 77.25 chs and
its bearing to be N. $84^{\circ}46'$ E.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, giving the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ meridian, _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the other monuments established, according to the instructions furnished by the United States Surveyor General for _____.

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, bearing date of _____, United States Surveyor General for _____, day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah, May 7th, 189_____.
The subdivisions of Township
South Range of East of the Salt Lake Base Meridian.
Utah.*

The foregoing field notes of the survey of _____, executed by _____, and William B. Dougall, under his contract No. 214, dated _____, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Tolson

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Linesof

Township No. 3 North, Range No. 14 East.

of the Salt Lake Base and Meridian,

The State of Utah

AS SURVEYED BY

H. E. Baxter and William B. Dougall, United States Deputy Surveyors
under his Contract No. 214, dated July 21, 1897

Survey commenced September 1, 1897

Survey completed September 7, 1897

6-151

Lots	Roots	M. Ch. L.	-
50 -	22 - 47	V	/
60 -	20 - 00	V	/
Clearings -		60 - 24	1

Contingent 4/5 - 5 - 50 - 18 /
 " attorney - 2 - 05 - 13 /

NAMES AND DUTIES OF ASSISTANTS.

John M. Dougall	Chambers
Joseph H. Keelley	Chambers
John K. Storer	Chambers
James McKeish	Chambers
James Stark	Morundua
Sam Schloss	Morundua
Walter W. McLaughlin	Axman
Thomas Blater	Axman
George M. Dougall	Flagman
Charles Sattler	Flagman

Volume

#

R0247

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Township 3 North, Range 14 East.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____, and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

_____, Chainm _____

_____, Chainm _____

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____, and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

_____, Moundm _____

_____, Moundm _____

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____, and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

_____, Axme _____

_____, Axme _____

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagma _____

Subscribed and sworn to before me this _____
day of _____, 189 }



Subdivision of 5° 3' N., R. 14 E.

Survey commenced September 1, 1897, and executed with two N. and S. E. Surveying instruments - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct; and were approved by the surveyor general for Utah, August 2, 1897.

We examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, we proceed as follows:-

At the corner of 5° 2' and 3° N., R. 14 and 15 E.; latitude $40^{\circ}56'N.$; longitude $110^{\circ}18'W.$; we set off $40^{\circ}56'N.$ on the lat. arc $75^{\circ}7'N.$ on the decl. arc; and, at $3^h 0^m$ p.m. l.m.t.; determine with the solar of one of the instruments, a true meridian; and mark a point thereof on a plug driven in the ground 5 chs. N. of the cor.

With the second instrument placed over the same initial point, we set off $40^{\circ}56'N.$ on the lat. arc $75^{\circ}7'N.$ on the decl. arc; and at $3^h 10^m$ p.m. l.m.t. determine with the solar a true meridian, and mark a point thereof on the plug already set 5 chs. N. of our station. This point falls over E. of that of the 1st instrument.

At $9^h 0^m$ by our watch which are $2^m 12^s$ fast of l.m.t., we observe Polaris at eastern elongation with the 1st instrument, in accordance with the Manual of Instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of our station.

September 1, 1897.

September 2, 1897; At $6^h 0^m$ a.m. l.m.t. we lay off the azimuth of Polaris 139° to the west and mark the

Subdivision of 53° N., R. 14 E. - Continued.

True meridian thus determined, with the 1st instrument, by a pencil mark on the slate at 5 chs. N., on which the true meridian falls 0.5 ins. E. of the mark determined by the solar of the 1st instrument, and identical with that of the 2nd instrument.

At 7^h 0^m a.m. l.m.t., we set off 40° 56' N. on the lat arc 7° 44' N. on the decl. arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark already set 5 chs. N. of our station; this mark falls 0.4 ins. E. of the true meridian established by the Polaris observations.

At 7^h 10^m a.m. l.m.t., we set off 40° 56' N. on the lat arc, 7° 44' N. on the decl. arc of the 2nd instrument and mark a point in the true meridian determined with the solar, by a pencil mark ^{on the slate}, already set 5 chs. N. of our station; this mark falls 0.5 ins. E. of the true meridian established by the Polaris observations.

The solar apparatus by p.m.s. and a.m. observations define positions for true meridians, respectively about 0' 11" west and 0' 21" east of the true meridian established by the Polaris observations, with the 1st instrument; and identical with and 0' 11" east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 6.30 a.m. is N. 16° 38' W., the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 35' E.

From the Tp cor. which is ~~at~~ ^{at} place tree, marked and intersected as described by ~~convention~~ general, we run North on E. bdy. of sec 36; and at 39.97 chs. fall 1th. E. of the 1/4 acre cor. and at 8.00 chs. intersect the cor. of secs 25, 30 31, and 36; therefore, the line bears north.

From the Tp cor. we run N. on the S. bdy. of secs 36, at 4.00 chs. fall 3 chs. north of the 1/4 acre cor.; and at 8.05 chs. fall 1th. S. of the cor. of secs 12, 35, and 36 on S. bdy. of Tp.; consequently the S. bdy. of sec 36

Subdivision of T.3 N., R.14 E. - Continued.

Years 7 & 8.

Therefore the bearings are as stated by the surveyor general, and on chaining practically agrees with the field notes of the original

We commence at the cor. of secs. 17, 25, and 36 on the S. edge of the Gp. which is a quartzite stone 5x8x8 ins above ground, marked and situated as described by surveyor general.

Thence we run

N. 0° 0' W., betw sec 35 and 36.

On gently descending land, along bottom of Henry's Fork Cañon, through quantity as follows

- | | |
|-------|--|
| 14.00 | Lean quarry as follows, enter slough, bearing E. and N. |
| 34.00 | Lean slough, bearing E. and N. thence ascend along E. slope. |
| 36.00 | Indian trail, bears N. 30° W. and S. E. |
| 39.00 | Enter fine timber bearing E. and N. |
| 40.00 | Set a gray granite stone 16x12x5 ins, 11 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raised mound of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable.
A pine, 4 ins diam. bears N. 70° E. 14 1/2 ls. dist. marked 1/4 S. 36° B.T. |
| | A pine 8 ins. diam bears N. 35° W. 14 1/2 ls. dist. marked 1/4 S. 35° B.T. |
| 57.00 | Indian trail, bears N. 15° E. and S. 15° W. |
| 70.00 | Indian trail, bears N. 25° W. and S. 25° E. |
| 80.00 | Set a gray granite stone 17x10x8 ins. 8 ins in ground for cor. of secs. 25, 26, 35, and 36; marked with 1 notch on S. and E. edges; raised mound of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable.
A pine, 5 ins diam, bears N. 75° E. 30 1/2 ls. dist. marked T.3 N., R.14 E. S. 36° B.T. |
| | A pine, 5 ins diam, bears S. 63° E. 45 1/2 ls. dist. marked T.3 N., R.14 E. S. 36 B.T. |
| | A pine 3 ins. diam., bears S. 86° W. 6 1/2 ls. dist. marked T.3 N., R.14 E., S. 35 B.T. |
| | A pine, 12 ins. diam bears N. 85° W. 90 1/2 ls. dist. marked T.3 N., R.14 E. S. 36 B.T. |

Land mountainous

Subdivision of 5.37 N.R. 14 E.—Continued.

Soil 1st and 2nd rates, loam and sand
Quaking asp timber 14.00 chs, Pine timber 41 chs.
mountainous or heavily timbered land 66.00 chs.

8. on a random line bet secs 25 and 36.
 4000 Set temp. 1/4 sec. cor.
 80.02. Intercept E bdy of Twp. at cor of secs 25 30 31 and 36.
 Then we run
 N. on a true line bet secs 25 and 36.
 On ascending land, through dense growth of
 young pine timber
 34.00 Top of ridge bears N and south, 200 ft. above sea level
 40.01 A bridge pine, 8 ins diam., for 1/4 sec. cor. Then mark
 1/4 S. 25 on N and 36 on S. sides, from which
 a pine, 12 ins diam., bears N 45° W. 17 mls. dist. marked
 1/4 S. 25 B.T.
 A pine, 6 ins. diam. bears S 45° E. 30 mls dist. marked
 1/4 S. 36 B.T.
 49.60 A Pine 8 ins diam. on line marked so that on E and S sides
 61.00 Lean pines, abrupt descent, bears N. and S.
 63.00 Foot of abrupt descent, also enter willow undergrowth
 bearing N and S.
 71.00 Henry's Fork, 30 mls wide 2 ft deep, flows N. 300 ft below land
 72.00 Lean willow undergrowth, enter pine timber, also
 ascend, bearing N. and S.
 77.50 Top of small ridge on E slope, bearing N. and S. descend
 80.03 The cor. of secs 25, 26, 35, and 36. 70 ft above canon
 Land mountainous 71.02 chs, mainly land 9.00 chs
 Soil 1st and 4th rates. loam, and stone
 Pine timber 69.02 chs, willow undergrowth 9. chs
 Sept. 12, At this cor we set off 7° 38' N on the dial. arc of one
 of the instruments; and, at 12:00 m. l.m.t. ob-
 serve the sun on the midian; the resulting
 lat. is 40° 57' N.
 mountainous or heavily timbered land, on descending with 8.00 chs

N 0° 1' 3" bet secs 25 and 26.

On gently undulating E. slope through dense
 growth of young pine timber.

- 62.5 A pine, 10 ins. diam. on line marked so that on N and S sides
 21.00 Indian trail, runs N.E. and S.W.
 36.00 S. end of lake 50 mls east.

Subdivision of T. 3 N., R. 14 E.—Continued.

- 40.00 Set a gray sandstone $24 \times 8 \times 4$ ins 18 ins in ground, for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N face, raised mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, $\frac{1}{4}$ of cor. Pits impracticable. Thus too small to mark.
- 49.00 Swale, drains N.E.
- 51.00 N. end of lake, b. chs east. Lake & chs wide.
- 54.00 Pond 1 ch. diam. $25 \text{ ft. } \frac{1}{2} \text{ ft.}$
- 80.00 Set a quartzite stone $16 \times 10 \times 8$ ins. 11 ins in ground for cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on E. edges raised mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor. Pits impracticable.
A pine 4 ins diam. near N.E. 10 Mr. dist. marked T. 3 N., R. 14 E. S. 24 B.T.
A pine 6 ins. diam. near S. 60° E. 8 Mr. dist. marked T. 3 N., R. 14 E. S. 25 B.T.
A quartering asp 4 ins diam. near S. 70° N., 14 Mr. dist. marked T. 3 N., R. 14 E. S. 26 B.T.
A quartering asp 4 ins diam. near N. 35° W., 28 Mr. dist. marked T. 3 N., R. 14 E. S. 23 B.T.
- Land mountainous
Soil 3rd rate gravel and stony loam
Dense young fine timber 80.00 chs.
Mountainous or heavily timbered land 8000 chs.
-
- E. on a random line between 24 and 25
Set temp $\frac{1}{4}$ acre cor.
- 80.15 Intercept E. body of Dp. 4 Mr. S of cor of secs 19, 24, 25, and 30; which is a porphyry $8 \times 20 \times 15$ ins in a loose ground, mashed and intersected as described by surveyor general.
- There are none
S 89° 58' N. on a true line between 24 and 25.
- Over demanding mountain land, through dense growth of young fine timber.
- 25.0. Swale, drains N.E., around.
- 5.00 Ridge, bears N.E. and S.W. about same elevation as sec. cor.
- 29.00 Lean pine timber, bears N.E. and S.W.
- 40.07 $\frac{1}{2}$ Set a sandstone, $18 \times 10 \times 5$ ins. 17 ins in ground for $\frac{1}{4}$ acre cor, marked $\frac{1}{4}$ on N face, raised mound of stone 2 ft base $1\frac{1}{2}$ ft high $\frac{1}{4}$ of cor. Pits impracticable.
A pond 1 ch. diam., 3 chs. no cor.

Subdivision of T.3 N., R.14 E.-Continued

53.50	Enter dense willow undergrowth, near N. and S.
57.40	Henry's Fork, 40 ft wide soft dep, flows N. 200 ft W. of meadow.
59.00.	Lean willow, near N. and S. around
60.00	Indian tail, near N. and S.
68.00	Enter pine timber, mainly N. and S.
80.15	The cor of secs 23, 24, 25, and 26, 125 ft above Henry's Fork Land mountainous Soil 1st and 3rd series, rock loose, and young. Pine timber 4-15 chs, willow undergrowth 5-10 chs. Mountain - nearly timbered land 80-15 chs.

September 2; At 3:00 p.m. l.m.t. in cut off 40°58' N on the dat. arc, 7°35' N on the decl. arc of one of the instruments; and determine a true azimuth with the solar, at the cor of secs 23, 24, 25, and 26.

True W. true

N. 0°01' N. bet. secs. 23 and 24.

On ascending mountain slope, through dense growth of young pine timber.

22.00	Top of ridge, near N.E. and S.W. 50 ft above sec. cor. sand
30.00	Bottom of N. end of basin, near N.E.
32.00	Arced from basin.
40.00	Set a gray granite stone 16x10x6 in., 11 in. in ground for 1/4 sec. cor. marked 1/4 on N. face, raised mound of stone 2 ft base 1/2 ft high 7 1/2 in. Pit impracticable. True too small to mark.

41.00	Top of ridge, near N 70°E and S 70°W about sand as last time
48.00	Foot of ridge, 90 ft below top
49.20	S. edge of pond, near E. 2 chs, and N. 2 chs.
50.50	N. edge of same, arced
68.00	Top of ridge near N 80°E and S 80°W about sand as last time
80.00	Set a gray sandstone 16x10x6 in., 11 in. in ground for cor of secs 13, 14, 23, and 24, marked with notch on S. and 1 notch on E. edges, raised mound of stone 2 ft base 1/2 ft. high 7 1/2 in. Pit impracticable. A pine 5 in. diam. near N 65°E. 14 ft dist. marked T.3 N. R.14 E. S. 1/2 B.T. A pine 6 in. diam. near S 15°E. 14 ft dist. marked T.3 N., R.14 E., S. 2 1/2 B.T. A pine, 5 in. diam. near S 40°W 33 ft dist. marked T.3 N. R.14 E. S. 2 1/2 B.T. A pine 4 in. diam. near N 82°W. 22 ft dist.

Subdivision of T.3 N., R.14 E.-Continued.

marked T.3 N., R.14 E., S.14 B.S.

Land mountainous

Soil $\frac{1}{4}$ th rate, stony

Dense growth of young pine timber 80.00 chs.
Mountainous or heavily timbered land on 80.00 chs.

N. 89° 58' E. on a random line bet. secs 13 and 24.
4000 feet temp $\frac{1}{4}$ sec. cor.

8000 Direct E. way of Tp. 4 miles N. of cor. of secs 13 & 19, 13 & 24.
which is a quartzite stone 6 1/2 + ft above ground,
marked and entered as described by surveyor general.

Three on line

W. on a true line bet. secs 13 and 24.

On steep N.W. slope, through dense young pine timber

16.90 Hump Fork, 60 ft wide 2 ft deep, flows N.E. also
bottom of Cation, 260 ft below sec. cor. ascend

17.50 Indian trail, bears N.E. and S.W.

2000 Top of small spur, projects S. ascend

21.50 Three ascend, also S. edge of pond 1 ch. diam.

31.00 A pond 2 chs. diam. 2 chs. S.

4000 Bet a gray sand stone 12 x 10 x 6 ins. 8 ins. in.
ground, for $\frac{1}{4}$ sec., marked $\frac{1}{4}$ on N face, raise
mound of stone 2 ft. base 1 1/2 ft. high N. of cor
Pits impracticable.

A pine 4 ins diam. bears N. 12 miles dist., marked
 $\frac{1}{4}$ S 13 B.S.

A pine 4 ins diam. bears S. 5 miles dist., marked
 $\frac{1}{4}$ S 24 B.S.

63.00 Top of ridge, bears N. and S. 250 ft above cation summit.

78.50 Swale, drains N.W. ascend.

8000 The cor. of secs 13, 14, 23, and 24.

Land mountainous

Soil $\frac{1}{2}$ rate, gravel and stone.

Dense growth of young pine timber

Mountainous or heavily timbered land 80.00 chs.

N. 89° 58' on a true line bet. secs. 13 and 14.

On descending N.E. slope through dense growth
of young pine timber.

4.00 Swale, drains N.W. ascend

9.00 Three abrupt descent on N.W. slope. 100 ft to

19.00 Dahlgreen Creek, 12 ft wide 6 ins. deep, flows N.E. ascend

Subdivision of T. 3 N., R. 14 E. Continued.

- 2600 Spur, projects E. discord.
- 35.00 Snake draws E. ascend, Also lean pine, enters
Quaking asp timber.
- 4000 Set a gray sand stone 20x12x6 ins 15 ins in ground
for 1/4 acre cor. marked 1/4 on N. face, raised mound
of stone 2 ft base 1 1/2 ft high N. of cor. Pits
A quaking asp, 4 ins, diam. mark $36^{\circ} 7' N$ 13 1/2 ins dist.
marked 1/4 S. 1/4 B.T.
- A quaking asp, 4 ins., diam. mark $36^{\circ} 7' N$ 8 1/2 ins dist.
marked 1/4 S. 1/4 B.T.
- 41.80 Intercept the Utah and Wyoming Boundary Line
8.7 rods. N. of mile post 329, which is a pine
post, marked and witnessed as described
by surveyor general.
- Set a gray sand stone 16x12x7 ins 11 ins in ground
for closing cor of recs. 13 and 14, marked C.C. on S
1 groove on E. and 5 grooves on N. faces, raise
mound of stone 2 ft base 1 1/2 ft high S. of cor.
Pits impracticable. this cor. 100 ft. above cutt.
A pine 6 ins diam. mark $30^{\circ} E$, 12 1/2 ins dist
Marked T. 3 N., R. 14 E., S. 1/4 B.T.
- A quaking asp 4 ins. diam. mark $37^{\circ} N$ 10 1/2 ins dist.
Marked T. 3 N., R. 14 E., S. 1/4 B.T.

Land mountainous

Soil 1st and 3rd rates, rich loam and stone.

Pine lumber 35.00 chs, Quaking asp 6.80 chs.

Mountainous or heavily timbered land 41.80 chs.

September 2, 1897.

September 3, 1897: At 7th 00^m a.m. L.M.T. we set off
40° 56' N on the lat line, 7° 2' N on the decl. line, of
one of the instruments; and determine a true
meridian with the solar, at the cor of recs.
2, 3, 34, and 35; which is a quagmire 5x8x8 ins
above ground, marked and witnessed as
described by surveyor general.

Hence we run

N. 0° 2' W. bet recs 34 and 35

On abruptly ascending S.E. slope, through
heavy pine timber

9.40 Top of abrupt ascent, thence across plateau
sloping gently N. 5° E. 100 ft. above recs.

Subdivision of T. 3 N., R. 14 E. - Continued

4.00	Set a gray granite 20 x 12 x 10 ins 15 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft base 1/2 ft. high N. of cor. Pits impracticable.
	A pine 10 ins. diam. tree S. 40° E. 35 ft. dist. marked 1/4 S. 35 B.T.
	A pine 12 ins. diam. tree N. 45° W. 32 ft. dist. marked 1/4 S. 34 B.T.
61.40	Lean pine timber, incl. quaking asp, man & mark.
66.90	Spring branch 2-fts wide, 3 ins. deep, also bottom of ravine, drains N.E. 300 ft. below top of plateau
8.00	Set a gray sand stone 18 x 10 x 10 ins 12 ins in ground, for cor of sec 26, 27, 34, and 35. marked with notches on S and notches on E edges. raise mound of stone 2 ft base 1/2 ft. high N. of cor. Pits impracticable, 100 ft. above ravine. A pine 6 ins diam tree N. 45° E. 16 ft. dist. marked T. 3 N., R. 14 E., S. 26 B.T.
	A quaking asp 5 ins. diam tree S. 45° E. 26 ft. dist. marked T. 3 N., R. 14 E., S. 35 B.T.
	A pine 6 ins diam tree S. 12° N. 35 ft. dist. marked T. 3 N., R. 14 E., S. 34 B.T.
	A quaking asp 4 ins. diam tree N. 40° W. 18 ft. dist. marked T. 3 N., R. 14 E., S. 27 B.T.
	Land mountainous.
	Soil 2 nd and 3 rd ratio. gravelly loam and stone.
	Pine timber 61.40 chs. Quaking asp, 18.60 chs.
	Mountainous or heavily timbered land 8.000 chs.
	E. on a random line bet. secs. 26 and 35.
40.00	Set temp 1/4 acre cor.
8.00	Interest N. and S. line at cor of sec 25, 26, 35, and 36. These in ravine.
	N. on a true line bet. secs. 26 and 35.
	On descending land through dense young pine timber
1.00	Swale, drains S. ascend.
1.50	Indian trail, bears N. and S.
7.00	Ridge, bears N. and S. 60 ft. above ravine, cor. descend
10.00	Front of descent, thence across basin 30 ft. below ridge
16.00	Ascend from basin 200 ft. to
34.00	Ridge, bears N. E. and S. W. descent

Subdivision of T. 3 N., R. 14 E. — Continued.

40.00	Set a gray sand stone 18+12+5 ins. 12 ins. in ground for 1/4 acre. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. A pine 5 ins. diam., bears N. 60° E. dist. marked 1/4 S. 26 B.T. A pine 6 ins. diam., bears S. 60° E. 14 ins. dist. marked 1/4 S. 35 B.T.
52.00	Small, drains N., ascend.
65.00	Ridge, bears N. and S. about same elevation at both ends.
70.30	Spring branch 50 ft. wide 2 ins. dep. flows N. also bottom of ravine, bear pine, enter quaking asp timber, bearing N. and S. same, 100 ft. below ridge.
80.00	The cor. of secs. 26, 27, 34 and 35, 200 ft. above same. Land mountainous Soil 2 nd and 3 rd rates sandy loam and gravel. Pine timber 70.30 chs and Quaking asp 97.0 chs. Mountainous or heavily timbered land 8.000 chs.
N. 003' N. between secs 26 and 27	
16.00	Along E slope through thick quaking asp timber
	Abrupt descent on N. E. slope. 300 ft. to
28.00	Foot of abrupt descent, thence gentle descent. Also bear quaking asp, enter pine timber. bearing E. and N.
40.00	Set a gray sand stone 12+8+5 ins. 8 ins. in ground for 1/4 acre. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. A pine 16 ins. diam., bears S. 60° E. 65 ft. dist. marked 1/4 S. 26 B.T. A pine 10 ins. diam., bears N. 10 ft. dist. marked 1/4 S. 27 B.T.
42.50	Dry wash, 10 ft. wide 3 ft. dep, drains N. W.
69.00	Bear timber N. E. and S. W.
78.00	Enter dense willow undergrowth, bears E. and N.
80.00	Set a gray sand stone 14+12+5 ins. 9 ins. in ground for cor. of secs 22, 23, 26, and 27. marked with 2 notches on S. and E. edges. raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. A pine 10 ins. diam. bears N. 30° E. 45 ft. dist.

Sub-division of T. 3 N. R. 14 E. - Continued

marked T. 3 N. R. 14 E., S. 23 B.T.

A pine 8 ins diam. bears S. 62° E. 32 ft dist.

marked T. 3 N. R. 14 E. S. 26 B.T.

No other trees within limits.

Land mountainous

Soil 1st and 3rd rates, rich loam, gravel and stone

Pine timber + 1.00 chs, Quaking asp + 8.00 chs.

Mountainous or heavily timbered land 8.00 chs.

September 3, At the corners 22, 23, 26, and 27, we set off 7¹/₂ N on the decl. arc of one of the instruments, and at 1²° 0' 0" m. lmt; observe the sun on the meridian; the resulting lat is + 45° 8' N.

Then we run

S on a random line bet. sec 23. and 26.

46.00 Set stmp 1/4 sec. cor.

80.08 Intercept N. and S. line 5 ft. s. of corners
23, 24, 25, and 26.

Then we run

S 89° 58' 9" N, on a true line bet. sec 23. and 26.

On ascending land, through dense young pine timber.

22.00 Ridge, bears N. and S. 150 ft abm. sec. cor. ascnd 100 ft to

32.00 Bottom of basin, ascnd. 100 ft to ridge

46.04 Set a gray quartzite stone 14 x 12 + 5 ins, quins in ground for 1/4 sec. cor. marked 1/4 on N face rail mounted of stone 2 ft. base 1 1/2 ft high N of cor. Pits impracticable

A pine 4 ins diam. bears N 15° W 20 ft. dist. dirt, marked 1/4 S 23 B.T.

A pine 10 ins. diam. bears S 10° E. 15 ft. dist. marked 1/4 S 26 B.T.

42.00 Ridge bears N. E. and S. W. descnd 50 ft. to

46.00 Basin, ascnd. 50 ft to

51.00 Ridge, bears N. and S. descnd 40 ft to

54.00 S. end of pond, 10 chs. long 3 chs. wide ascnd. 60 ft to

60.00 Top of ridge bears N. and S. descnd. 70 ft. to

66.00 A pond 3 chs diam. 3 chs. S.

68.00 S. side of pond 2.50 chs long 1 ch. wide.

70.00 Small, bears N. and S. ascnd.

72.00 Small spur projects N. descnd. above a pine.

79.00 Enters dense willow undergrowth, bearing N. and S.

Subdivision of T3N R14E - Continued.

- 80.08 The corf acres 22, 23, 26 and 27. 200 ft below ridge.
Land mountainous.
Soil 1st and 3rd rates rich loam, gravel and stone.
Pine timber 72.00 cu. Yd. Willow undergrowth 108 cu. Yd.
Mountainous or heavily timbered land 5000 cu. Yd.
-
- No 23 Amt acres 22 and 23
On gently descending land, through dense
willow undergrowth.
- 6.25 Dahligen Creek, 6' wide 4' ins. deep, flowing E.
9.00 Lean willow, mainly N.E. and S.W. exposed.
13.00 Enter heavy quaking asp and pine timber, bearing E.
23.00 Thence slight ascent along E slope. 50' above.
40.00 Set a gray sand stone 20 x 2 x 2 ins. 15 ins in ground
for 1/4 acre. compassed 50' on N. side, raise mound
of stone & 1/4 base 10' high. High 7' 1/2, or Pitt imperceptible.
A pine 12 ins diam. near S. E. edge.
marked 1 1/4 S. 23 E.
A pine 14 ins diam. near S. E. edge.
marked 1 1/4 S. 23 E.
46.00 Lean quaking asp, all pine, leaning E and S.
51.22 A pine 10 ins. diam. leaning southward on S. side.
56.00 Lean pine, with quaking asp, leaning E and S.
8.00 Set a gray sand stone 25 x 10 x 10 ins. 21 ins in ground
for corf acres 14, 15, 22, and 23, marked with 3
notches on S. end 2 notches on E edge, raise mound
of stone & 1/4 base 10' high 7' 1/2, or Pitt imperceptible.
A rock in place 3 x 2 x 2 ft. above ground near
S. E. edge the dist.
A quaking asp. 14 ins diam. near S. E. 15' in dist.
marked 5.37 N., R. 14 E., S. 14 B. S.
A quaking asp. 8 ins diam. near S. E. 8' in dist.
marked 5.37 N., R. 14 E., S. 23 B. S.
A quaking asp. 10 ins diam. near S. E. 10' in dist.
marked 5.37 N., R. 14 E., S. 22 B. S.
A quaking asp. 6 ins diam. near S. E. 6' in dist.
marked 5.37 N., R. 14 E., S. 15 B. S.
Land mountainous
Soil 1st and 3rd rates. rich loam and gravel.
Pine and quaking asp timber 67.00 cu. Yd.
Willow undergrowth 9 cu. Yd.
Mountainous or heavily timbered land, dense undergrowth 8000 cu. Yd.

Subdivision of T. 3 N., R. 14 E. - Continued.

	N. 89° 58' E. on a random line bet. rcs. 14 and 23.
4000	Sit temp $\frac{1}{4}$ acre, cor.
79.96	Intersect N and S line at cor of rcs. 13, 14, 23 and 24. Thence on rcs.
	S 89° 58' W. on a true line bet. rcs. 14 and 23.
	On an ascending land, through dense young pine timber.
110	A pine 6 ins. diam. on thin, washed 2 inches on E. side.
5.30	Spm projects N. discord 1 m. ft. to crust.
6.00	N. edge of pond 2.50 chs. diam., 5 ft. E. S.
17.00	Lean pine timber, with willow undergrowth parallel to crust.
18.00	Dahlquin crust, 8 ft. wide 5 ins. deep, flows N. E. ascend.
24.00	Lean willow, with pine timber, leaning N. east 33°.
25.00	Step ascent, on S. E. slope.
39.98	Sit a gray sand stone 16 x 10 x 5 ins 11 ins in ground for $\frac{1}{4}$ acre. cor. marked $\frac{1}{4}$ on N. face, raised around of stone 2 ft. base 1 ft. high N. of cor. Site impracticable.
55.00	Spm projects S. E. discord.
60.00	Lean pine, leaning N. and S.
62.00	N. end of pond, 4 chs. long & 2 wide, leans S. around.
68.00	With quaking asp timber, leans N. and S.
79.96	The cor of rcs. 14, 15, 23 and 23. 300 ft. above crust. Sand mountainous
	Soil 1 st and 2 nd rates. rich and sandy loam.
	Pine timber 57 chs. quaking asp timber 11.96 chs.
	Willow undergrowth 3.00 chs.
	Mountainous or heavily timbered land 79.96 chs.

	N. 89° 58' W. on true line bet. rcs. 14 and 15.
	Along E. slope, through quaking asp timber.
1.00	Step ascent along S. E. slope. 200 ft. to
13.00	Top of ridge, leans N. 10° and S. 10°. Also lean quak- ing asp and with scattering pine timber, following ridge Thence gentle descent along N. slope.
40.00	Sit a gray sand stone 16 x 12 x 6 ins. 11 ins in ground for $\frac{1}{4}$ acre. cor. marked $\frac{1}{4}$ on N. face. raised around of stone 2 ft. base 1 ft. high N. of cor. Site impracticable.
	A pine 4 ins. diam., leans E. 17 ft. dirt, marked $\frac{1}{4}$ S. 14 B.T.
	A pine 5 ins. diam., leans 3 ft. 24 ft. dirt marked $\frac{1}{4}$ S. 15 B.T.
41.35	Intersect Utah and Wyoming Boundary line 1085 chs N. of mile post 330, which is a pine

Subdivision of T.3 N., R.14 E. - Continued.

post, marshy and situated as described by surveyor general
 Set a red sand stone 18x10x6 ins 12 ins in ground
 for closing cor. Bsecs. 14 and 15, marked CC
 on S & on E and 4 grooves on N faces, raise
 mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high 30 ft. from.
 Site impracticable. 70 ft below ridge
 A pine 8 ins diam. near S. 45° E. 30 ft. dist.
 marked T.3 N., R.14 E. S. 14 B.T.
 A pine 4 ins diam. near S. 45° E. 28 ft. dist.
 marked T.3 N., R.14 E. S. 15 B.T.
 Land mountainous
 Soil 2nd and 3rd rates, gravelly loam and stone
 Timber, pine and quaking asp.
 Mountainous or heavily timbered land 41.35 chs.

September 3: At 4^h 0^m p.m. lmt. in set off 4056' N.
 on the lat arc, 7 $\frac{1}{3}$ ' N on the decl arc of one of the
 instruments, and determine a true meridian
 with the solar, at the cor of secs 3, 4, 33, and 34,
 on S. side of Tp. which is a fine tree marked
 and situated as described by surveyor general.

Then we run

No 82^r N.W. 1/4 sec. ssecs. 33 and 34.

On descending land, through heavy pine timber
 2.9.00 Dahlquem Creek. 4 ft. wide 3 ins. dup. flour N.E.

Also bottom of ravine, around, a few quaking
 asps among pines, cut 200 ft below sec. cor.

4.0.00 Set a brown sand stone 14x12x6 ins. 9 ins in ground
 for 1/4 sec. cor. marked 1/4 on N face, raise mound
 of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W of Cor. Site in-
 practicable

A quaking asp 4 ins diam. near S. 45° E. 13 ft. dist. marked 1/4 S. 34 B.T.

A pine 8 ins. diam. near N. 14 ft. dist. marked
 1/4 S. 33 B.T.

5.0.00 Lean pine, all quaking asp.

7.2.00 Lean quaking asp, inter heavy pine timber near end of.

7.2.28 A pine 7 1/2 ins diam on line marked notches on N. and S. sides

7.7.00 Top of ridge, near E. and N. 200 ft. above creek

8.0.00 Set a gray sand stone 14x10x5 ins. 9 ins in
 ground for cor. Bsecs. 27, 28, 33, and 34.

Subdivision of T. 3 N R. 14 E - Continued.

marked with 1 notch on S and 3 notches on E edges, raised mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pits impracticable 50 ft. below ridge A pine, 14 ins diam. bears N. 83° E. 7 1/2 ls dist. marked T. 3 N, R. 14 E, S. 27 B.T.
A pine 14 ins diam. bears S 40° E. 6 3/4 ls dist marked T. 3 N, R. 14 E, S. 34 B.T.
A pine 12 ins diam. bears S 50° E. 18 1/2 ls dist marked T. 3 N, R. 14 E, S. 35 B.T.
A pine 10 ins diam. bears N. 70° E. 14 1/2 ls dist. marked T. 3 N, R. 14 E, S. 28 B.T.

Land mountainous

Soil 1st, 2nd, and 3rd rates, rich loam, gravel and stone
Timber, pine and quaking asp.
Mountainous on heavily timbered land 8 1/2 ls chs

- E on a random line bet. secs. 27 and 34.
40.00 Sub stump 1/4 sec. cor.
80.02 Intersect N and S line 1 M. S. of cor. of secs. 26, 27,
34 and 35.
Thence W. 1/2 M.
W. on true line bet. secs 27 and 34.
Over ascending land, through quaking asp and
a few scattering pines. around 70 ft to
7.00 Top of ridge bears N. 50° E and S. 50° W. Also leave quaking
asp, enter heavy pine timber, following ridge.
descend. 350 ft to creek.
20.00 Lean heavy pine, enter dense young pine timber.
varying N and S.
40.01 Set a gray sand stone 14 x 10 x 6 ins gives in ground
for 1/4 sec. cor. marked 1/4 on N face, raised mound
of stone 2 ft. base 1 1/2 ft high N of cor. Pits im-
practicable.
A pine 12 ins. diam. bears N. 50° E dist.
marked 1/4 S. 27 B.T.
A pine 8 ins. diam. bears S 32 1/2 ls dist
marked 1/4 S. 34 B.T.
47.75 Dahlgreen Creek 56 ls wide 3 ins. deep, flows N. Also
bottom of ravine, around. 300 ft to ridge
63.00 Lean young pine, enter heavy pine timber bears N. 50° E.
73.00 Top of ridge, bears N. 30° E and S. 30° W. descend. 50 ft to
8.00 The cor of secs 27, 28, 33, and 34.

Sub-division of T. 3 N., R. 14 E. - Continued

Land mountainous

Soil ~~and~~ ^{is} a sand strata, sandy loam and gravel

Pine and quaking asp timber.

Mountainous or heavily timbered land 8000 ft. elev.

September 3, 1897.

September 4, 1897: At 700 m. a.m.l.m. we set off
 $40^{\circ} 57' N$ on the east arc, $70^{\circ} 0' N$ on the declination
 of one of the instruments, and determine a
 true meridian with the solar; at the cor.
 of sec 27, 28, 33, and 34.

Then we run

$70^{\circ} 0' N$. but secs 27 and 28.

On steep descending land, through heavy
 pine timber.

9.00 Crust broken wide 3 ins. deep, flows N.E. also bottom
 of ravine, 125 ft. below sec. cor., ascend 150 ft. top of

10.00 Some quaking asps among pines, quaking asps
 gradually become thicker, replacing pines.

22.00 Top of spur, projects E. thence along E. slope.

40.00 Set a gray sand stone 12 x 8 x 6 ins. 8 ins. in ground
 for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on $\frac{1}{4}$ face, raise
 mound of stone 2 ft. base $\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor.
 Pits impracticable

A quaking asp 10 ins. diam. base E. 43 lbs dist.
 marked $\frac{1}{4}$ S 27 B.T.

A quaking asp 18 ins. diam. base N. 50° W. 6 lbs
 dist, marked $\frac{1}{4}$ S 28 B.T.

52.00 Clear quaking asp, enter dense young pine
 timber mainly E. and $\frac{1}{4}$.

80.00 Set a gray sand stone 14 x 12 x 8 ins. 9 ins. in
 ground for cor of secs 21, 22, 27, and 28.
 marked with 2 notches on 3 and 3 notches on
 E edge. raise mound of stone 2 ft. base $\frac{1}{2}$
 ft. high $\frac{1}{4}$ of cor. Pits impracticable.
 A pine 6 ins. diam. base N. 80° E. 14 lbs dist
 marked T. 3 N. R. 14 E. S. 22 B.T.

A pine, 5 ins. diam. base S. 10° E. 18 lbs. dist.
 marked T. 3 N. R. 14 E. S. 27 B.T.

A pine 6 ins. diam. base S. N. 53 lbs. dist.
 marked T. 3 N. R. 14 E. S. 28 B.T.

A pine 5 ins. diam. base N. W. 34 lbs. dist.

Subdivision of T.3 N., R. 14 E. - Continued.

marked T.3 N., R. 14 E. S. 21 B. T.

Land mountainous

Soil 1st, 2nd and 3rd rates rich loam, sand and gravel

Pine and quaking asp timber

Mountainous or mainly timbered land 8,000 chs.

E. on a random line bet. secs 22 and 27.

40.00 Set temp 1/4 acre. cor.

80.06 Intersect N and S line 5 1/2 ls S of conf. line 22, 23, 26, and 27.

Thick, uneven

S. 89° 58' N. on a true line bet. secs 22 and 27.

On gently descending land, through dense willow undergrowth.

0.50 Dahlquin Creek, 6 ft. wide 4 ins. deep flows N.

8.00 Lean willows, inter. quaking asp and pine timber
bearing N and S. also ascend. 70 ft to spur

10.90 A pine 16 ins. diam. on line marked 2 switches on E. and 1 switch

13.00 Top of spur, projects S. also lean pine and quaking asp.

19.00 Bottom of dry gulch, drains S.E., around. 250 ft. low cor.

38.00 Entire quaking asp and scattering pine timber mixed & S.

40.03 Set a gray sand stone 18+18+5 ins 12 ins in ground
for 1/4 acre. cor. marked 1/4 on N face, raise mound
of stone 2 ft base 1 1/2 ft high, N of cor. Pit 6 in -
practicable,

A pine 8 ins. diam. bear N. 70° N. 138 lbs dist.

marked 1/4 S. 22 B.T.

A quaking asp 5 ins diam. bear S. 25° E. 38 lbs
dist, marked 1/4 S. 27 B.T.

50.00 Lean quaking asp, inter. dense young pine timber
bearing N and S.

80.06 The cor. of secs 21, 22, 27, and 28.

Land mountainous

Soil 1st, 2nd and 3rd rates, rich loam sand and gravel

Pine and quaking asp timber 4708 chs.

N. 08° 27' W. by sec. 21 and 22.

On ascending E slopes, through young pine timber

5.00 Entire plateau, bearing N and S. N. 50 ft. above sea.

40.00 Set a gray sand stone 14+12+6 ins 9 ins. in
ground for 1/4 acre cor. marked 1/4 on N face
raise mound of stone 2 ft. base 1 1/2 ft. high

Subdivision of T.3 N, R.14 E., - Continued.

	<p>N. of cor. Pitt impracticable A pine, 12 ins. diam, bears S. 20° E. 18 ft. dist. marked 1/4 S. 22 B.T.</p> <p>A pine, 8 ins. diam, bears S. 45° W. 26 ft. dist. marked 1/4 S. 21 B.T.</p>
8.000	<p>A pine tree 10 ins diam. for cor of secs 15, 16, 21, and 22 we marked T.3 N, S. 15 on N.E. R.14 E, S. 22 on S.E. S. 21 on S.W. and S. 16 on N.W. sides; with smoother on S and E sides, raise mound of stone & ft base 1/2 ft high N. of cor. Pitt impracticable, from which A pine 14 ins diam, bears N. 45° E 30 ft. dist. marked T.3 N, R.14 E. S. 15 B.T.</p> <p>A pine 6 ins diam. bears S. 70° E 40 ft. dist. marked T.3 N, R.14 E. S. 22 B.T.</p> <p>A pine 6 ins diam bears S. 55° W. 15 ft. dist. marked T.3 N, R.14 E. S. 21 B.T.</p> <p>A pine 14 ins diam, bears N. 60° W. 28 ft. dist. marked T.3 N, R.14 E, S. 16 B.T.</p> <p>Land, plateau 75 chs, mountainous 5 chs. Soil 1st and 2nd strata. rich loam and gravel Pine timber 8.00 chs. Mountainous or mainly timbered land 8.00 chs.</p>
4.000	<p>N. 89° 58' E. on a random limestone 15 and 22. Set timber 1/4 acre. cor.</p>
79.98	<p>Intersect N. and S. line 8 ft. N of cor of secs 14, 15, 21, and 23. Thence we run N. 89° 59' W. on a true line bet secs 15 and 22 On steep ascending land through quaking asp timber, 100 ft. to top of ridge</p>
5.00	<p>Top of ridge bears N. 30° E and S. 30° W. descended Also leave quaking asp, enter pine timber</p>
20.00	<p>Leave timber, bearing N. and S.</p>
25.00	<p>Draw, drains N, 150 ft. below ridge</p>
29.00	<p>Enter pine timber, bearing N. and S.</p>
39.99	<p>Set a sand stone 14 x 12 x 5 ins 9 ins in ground for 1/4 acre. cor. marked 1/4 on N face, raise mound of stone & ft base 1/2 ft high N. of cor.</p>

Subdivision of T.37N, R.14E. - Continued

- | | |
|-------|--|
| | Pile impracticable
A pine 14 ins in diam. base N., 13 $\frac{1}{2}$ ft dist.
marked 1/4 S. 15 B.T. |
| | A pine 10 ins. diam. base S., 6 $\frac{1}{2}$ ft dist.,
marked 1/4 S. 22 B.T. |
| 49.00 | Cutter plateau margin N and S. 200 ft above draw |
| 79.98 | The cor. of secs. 15, 16, 21, and 22.
Land mountainous 4900 chs, plateau 3098 chs
Soil 2 nd and 3 rd rates, gravel and stone
Pine timber 65.98 chs, quaking asp. 5 chs.
Supt 4. At this cor. we set off 65 $\frac{1}{2}$ N on the
deck arc of one of the instruments, and at 1/2
odm. m. l.m.t. observe the sun on the
meridian, the resulting lat is 40° 5' N.
<u>Mountainous or heavily timbered land 79.98 chs</u> |
| | No. 02 $\frac{3}{4}$ N. on a true line betw. secs. 15 and 16.
Along plateau, through dense young pine timber. |
| 4000 | Set a gray quartzite stone 14x10x5 ins, 9 ins in
ground for 1/4 sec cor., marked 1/4 on $\frac{1}{2}$ face.
raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft high
N of cor. Pile impracticable.
A pine 14 ins diam base S 70° E, 37 $\frac{1}{2}$ ft dist.
marked 1/4 S. 15 B.T. |
| | A pine 12 ins diam base S 58 $\frac{1}{2}$ N. 18 $\frac{1}{2}$ ft dist
marked 1/4 S. 16 B.T. |
| 41.05 | Intersect Utah and Wyoming Boundary line 12.32
chs N. of mile post 331, which is post bns
eq. marked and utilized as described by
surveyor general.
Set a sand stone 24x12x5 ins 18 ins in ground
for closing cor. of secs 15 and 16, marked C.C
on S and $\frac{1}{2}$ grooves on E and $\frac{1}{2}$ face, raise
mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high S of
cor. Pile impracticable.
A pine 10 ins diam base S 12° E 13 ft dist
marked T.37N, R.14E, S. 15 B.T. |
| | A pine 6 ins diam. base S 8° $\frac{1}{2}$ N 13 ft dist
marked T.37N, R.14E, S. 16 B.T. |
| | Sand, nearly level plateau
Soil 2 nd rate gravelly loam
Pine timber, heavily timbered plateau 41.05 |

Sub-division of T.3 N., R.14 E. - Continued

- From the corf recs. 4, 5, 32, and 33, on S bdy of Sp.
which is a granite slope 6x8x5 ins above ground,
marked and returned as described by surveyor
general, in rec.
- 7000' N.W. recs 32 and 33.
- On ascending land, through fine timber
Enter plateau, bearing N.E. and S.W.
- 500 Lean plateau, bearing E. and W. discerned
- 2000 Bottom of draw, bearing N.E., then gently arched
along E slope. 150 ft below plateau
- 3500 Set a gray sand stone 18x10x10 ins 12 ins in ground
for 1/4 sec. cor. marked 1/4 on N face, raise
mound of stone 2 ft. base 1/2 ft high 1/8 cor.
Pits impracticable.
- A fine, 8 ins. diam tree E. 14 lbs dist. marked
1/4 S. 33 B.T.
- A fine 12 ins diam tree N. 50° W. 16 lbs dist
marked 1/4 S. 32 B.T.
- 5000 A fine 8 ins diam, for corf recs 282 & 32 and 33, we
marked
- T.3 N., S. 28 on N.E.
R. 14 E., S. 33 on S.E.
S. 32 on S. 9 1/2; and
S. 29 on N. 5 1/2 sides; with 1 notch on S and 4 notches
on E. sides, raise mound of stone 2 ft. base 1/2 ft.
high 1/8 cor; Pits impracticable. 75 ft. above draw.
- A fine 8 ins. diam. tree N. 70° E. 14 lbs dist.
marked T.3 N., R. 14 E., S. 28 B.T.
- A fine 10 ins diam. tree S. 60° E. 10 lbs dist.
marked T.3 N., R. 14 E., S. 33 B.T.
- A fine 9 ins diam. tree S. 45° W. 6 lbs dist. marked
T.3 N., R. 14 E., S. 32 B.T.
- A fine 8 ins diam tree N. 45° W. 12 lbs dist.
marked T.3 N., R. 14 E., S. 29 B.T.
- Land mountainous
Soil 2nd and 3rd rates gravelly loam and stone
Fine timber!
- Mountainous or heavily timbered land 8,000 chs...
8. on a random line bet. recs. 28 and 33.
- 4000 Set stump 1/4 sec. cor.
- 8,000 Entert N and S line 1/4 N. B. cor. of recs 27 & 8.3 & 8.4.

Subdivision of T. 3 N., R. 14 E. - Continued.

These we run

N. on true line bet. secs 2, 8 and 33.

Over descending land through fine timber.

210 A fine 10 ins. diam. on line, marked 2 notches on E. side.

7.21 A fine 14 ins. diam. on line marked 2 notches on East side.

19.30 Creek, 5 ft. wide 2 ins. deep flows N.E. also bottom

of ravine, roof hollow etc. cor. around 350 ft to me cor.

36.96 A fine 12 ins. diam. on line marked 2 notches on East & sides.

39.50 A fine 14 ins. diam. on line marked 2 notches on East & sides.

40.02 Set a gray sand stone 12 x 10 x 6 ins 8 ins in ground

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raised round

of stone 2 ft. base $\frac{1}{2}$ ft. high N of cor. Pits impracticable.

A fine 8 ins. diam. base N. 5° E. 12 ft. dist

marked $\frac{1}{4}$ S. 28 B.T.

A fine 8 ins diam. base S. 42 ft. dist.

marked $\frac{1}{4}$ S. 33 B.T.

41.00 Leave heavy pine timber, enter quaking asp base N.E.

45.00 Leave quaking asp. enter pine timber.

50.02 The cor of secs 2, 8, 29, 32, and 33.

Land mountainous.

Soil ~~and~~ and ~~soil~~ rates, gravel and stone

Timber, pine 76.04 chs, quaking asp. 44.00 chs

Mountainous or heavily timbered land 80.04 chs.

September 4: At 4 hours p.m. L.M.T. we set off
 $40^{\circ} 57' N$ on the lat arc, $65^{\circ} 1' N$ on the decl arc
 of one of the instruments, and determine a
 true meridian with the solar, at the
 cor of secs 2, 8, 29, 32, and 33.

These we run

N. $80^{\circ} 3' N$. bet. secs. 28 and 29.

Over gentle ascent, along S. slope, through
 fine timber, and about 80 ft to top of ridge

4.00 Leave heavy pine, enter dense young pine timber
 mainly Sand & t.

4.00 Set a gray sand stone 16 x 8 x 6 ins. 11 ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. raised round
 of stone 2 ft base $\frac{1}{2}$ ft high N of cor. Pits impracticable
 A fine 4 ins. diam. base E. 44 ft. dist, marked
 $\frac{1}{4}$ S. 28 B.T.

A fine 4 ins diam. base N. 6 ft. dist, marked
 $\frac{1}{4}$ S. 33 B.T.

Subdivision of T. 3 N., R. 14 E. - Continued.

- 5600 Top of ridge, bears N.E. and S.W. steep descent.
- 5500 Thence along N. slope. 150 ft. below ridge
- 8000 Set a gray sand stone 16x14x6 ins. 11 ins. in ground
for cor of secs 20, 21, 28, and 29; marked with
2 notches on S. and 4 notches on E. edges.
raise mound of stone 2 ft base 1/2 ft high N.
S. cor. Site impracticable.
- A fine 7 ins diam. tree N. 60° E. 22 1/2 ft dist.
marked T. 3 N., R. 14 E., S. 21 B.T.
- A fine 6 ins diam tree N. 15° E. 12 1/2 ft dist.
marked T. 3 N., R. 14 E., S. 28 B.T.
- A fine 4 ins diam tree N. 45° W. 14 1/2 ft dist.
marked T. 3 N., R. 14 E., S. 29 B.T.
- A fine 4 ins diam tree N. 12° W. 16 1/2 ft dist.
marked T. 3 N., R. 14 E., S. 20 B.T.
- Land mountainous
- Soil 3rd rate, gravel and stone.
- Pine timber.
- Mountainous or heavily timbered land 8000 chs.
-
- E. on a random line bet secs 21 and 28.
- 4000 Set trunk 1/4 acre. cor.
- 8000 Between N and S line 2 1/2 ft S of cor of secs
21, 22, 27, and 28.
- Thence up river
S 89° 59' W. on a tree line bet secs 21 and 28.
- Over ascending land through pine timber
- 900 Top accent, with plateau, bearing N. and S. W.
- 4000 Set a gray sand stone 20x2x8 ins 15 ins in ground
for 1/4 acre. cor. marked 1/4 on N face, raise mound of
stone 2 ft base 1/2 ft high N. of cor. Site impracticable.
- A fine 12 ins diam. tree N. 18 1/2 ft dist. marked
1/4 S. 21 B.T.
- A fine 10 ins diam tree S. 33 1/2 ft dist. marked
1/4 S. 28 B.T.
- 4600 from plateau bearing north and S. ascend. 200 ft. to
- 7100 Top of ridge, bearing N. and S. descend. 150 ft. to
- 8000 S. cor of secs 20, 21, 28, and 29.
- Land mountainous, 43 chs, plateau 37 chs
- Soil 2nd and 3rd rates sandy loam and gravel
- Pine timber, Mountainous or heavily timbered land 8000 chs.

September 4, 1897.

Subdivision of T. 3 N., R. 14 E.—Continued.

September 5, 1897: At 7th ambmt. we set off 40° 58' N on the lat. arc, 63° N. on the decl. arc of one of the instruments; and determine a true meridian with the solar, at the cor. of sec. 20, 21, 28, and 29.

Then we run

N. 0° 3' N. bet. sec. 20 and 21

On west slope, through fine timber.

- 4.00 Swale, drainage N. W. 30 ft. below sec. cor. and
2.000 Spur on N. slope, 50 ft. above sec. cor. ascend
2.8.00 End of lake 3 chs N. lake 5 chs wide, general
bearing N. and S.
4.000 Set a gray sand stone 14 x 12 x 6 ins. 9 ins. in ground
for 1/4 sec. cor. marked 1/4 on N. face, raised round
of stone 2 ft. base 1 1/2 ft. high 2 1/2 ft. Cor. Pit impracticable
A pine 10 ins diam. near 3rd E. 1 1/2 chs dist. marked
1/4 S. 21 B.T.
A pine 1/2 ins diam. bears N 20° 31'. 2 1/2 chs dist.
marked 1/4 S. 20 B.T.

This cor. stands 20 chs from E. edge of lake.

- 44.00 N. end of lake 4 chs. N.
8.000 Set a gray sand stone 14 x 12 x 6 ins. 9 ins. in ground
for cor. of sec. 16, 17, 20, and 21. marked with 3 notches
on S and 4 notches on E edges. raised round
of stone 2 ft. base 1 1/2 ft. high 2 1/2 ft. Cor. Pit imprac-
ticable. This cor. is the same elevation as that 1 mil. S.
A pine 4 ins diam. near N 45° E. 2 1/2 chs dist.
marked T 3 N, R. 14 E. S. 16 B.T.

A pine 4 ins. diam. near S 45° E. 6 chs. dist.
marked T 3 N, R. 14 E. S. 21 B.T.

A pine 5 ins. diam. near S 60° N. 18 chs dist.
marked T 3 N, R. 14 E. S. 20 B.T.

A pine 4 ins diam. near N 78° N. 62 chs dist.
marked T 3 N, R. 14 E. S. 17 B.T.

Land mountainous

Soil ~~soil~~ and ^{4th} ratio, gravel and my stone

Pine timber 8.000 chs.

Mountainous or heavily timbered land 8.000 chs

N 89° 59' E. on a random line bet. sec. 16 and 21.

- 40.00 Set temp 1/4 sec. cor.

80.08 Intersect N and S line 2 1/2 chs N of cor. of sec. 15, 16, 21, and 22.

Subdivision of T. 3 N., R. 14 E. - Continued.

- Thus we run
N. on a tree line betw accs 16 and 21.
On plateau, through pine timber
A pine 12 ins diam on line, marked 2 notches on E and W sides
Set a gray sand alone $30 \times 14 \times 4$ ins. 2-3 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. raise mound
of stone 2 ft. base. $\frac{1}{2}$ ft. high N of cor. Pits impracticable
A pine, 10 ins diam near $760^{\circ} N.$ 80' 1/4 le dist.
marked $\frac{1}{4}$ S. 16 B.T.
A pine 8 ins diam near $845^{\circ} E.$ 120 chs dist.
marked $\frac{1}{4}$ S. 21 B.T.
- 43.95 A pine 12 ins diam on line marked 2 notches on E and W sides
47.32 A pine 10 ins diam, on line marked 2 notches on E and W sides, also in plateau.
72.58 Top of ridge, near N. and S. 150 ft above plateau, near 760°
8.008 The cor. of accs. 16, 17, 20, and 21.
Land mountainous 32.76, Plateau 47.32 chs.
Soil ~~and~~ and ~~and~~ ratio. sandy loam and gravel and stone
Pine timber.
Mountainous or heavily timbered land 8.008 chs.
- No 003 N. on line line betw accs 16 and 17.
Over N. slope. through pine timber.
Draw on N slope. 75 ft below sec. cor.
Span on N slope. 75 ft. abov draw.
Set a gray sand stone $14 \times 10 \times 8$ ins 9 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raise mound
of stone 2 ft. base. $\frac{1}{2}$ ft. high N of cor. Pits impracticable
A pine 3 ins diam, near $815^{\circ} E.$ 80' 1/4 le. dist. marked
 $\frac{1}{4}$ S. 16 B.T.
A pine 4 ins. diam. near $770^{\circ} N.$ 12-14 le dist. marked
 $\frac{1}{4}$ S. 17 B.T.
- 41.45 Intersect Utah and Wyoming Boundary line 15.44
chs N. of mile post 337, which is a post,
marked and witnessed as described by surveyor
general.
Set a gray sand stone $16 \times 10 \times 5$ ins, 11 ins in ground
for closing cor. of accs 16 and 17, marked C.C.
on S. 4 grooves on E and 2 grooves on N face
raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high
S of cor. Pits impracticable. 100 ft. below sec. cor.
A pine 3 ins diam. near $815^{\circ} E.$ 18' 1/4 le dist.
marked T. 3 N., R. 14 E., S. 16 B.T.

Subdivision of T. 3 N, R. 14 E. - Continued

A pine 4 ins diam bears S. 20° E. 200 ft dist.
marked T. 3 N, R. 14 E., S. 17 B.T.

Land-mountainous

Soil 5th and 4th rates gravel and stone

Pine timber

Mountainous or heavily timbered land 4 to 5 hrs.

From the cor of recs 5, 6, 31, and 32, on S. side of P.
which is a pine tree, marked and situated
as described by surveyor general, we run
N. 064° 37' W 200 ft sec 31 and 32

Along N slope, through pine timber

5.97 A pine 10 ins diam. on limestone marked 2 notches on N and S sides

Spur on N slope, secured.

37.00 Pond, 2 ch wide, 1 ch 7 ft. 4 ch S.E., around

40.00 Sat a gray sand stone 14x10x6 ins, 9 ins in ground for
1/4 acre cor. marked 1/4 on N face. raised mound of
stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable.

A pine 10 ins diam. bears S. 17 E. 400 ft dist marked
1/4 S. 32 B.T.

A pine 8 ins diam. bears N. 60° W. 630 ft dist.
marked 1/4 S. 31 B.T.

43.45 A pine 15 ins diam on limestone marked 2 notches on N and S sides

46.65 Top of small ridge on N. slope, bears N. 10° E. and S. 10° E. around

50.65 N edge of pond, 1 ch diam, three around along N slope.

54.00 Lean heavy pine timber inter, during young pine, leaning south.

58.00 Sat a sand stone 14x10x8 ins 9 ins in ground
for cor of recs 29, 30, 31, and 32. marked with
1 notch on S and 5 notches on E edges raise
mound of stone 2 ft base 1 1/2 ft high N.
of cor. Pits impracticable thin cor. between stones at last corner.

A pine 6 ins. diam. bears N. 30° E. 430 ft dist.
marked T. 3 N, R. 14 E. S. 29 B.T.

A pine 4 ins diam. bears S.E. 13-14 ft dist.
marked T. 3 N, R. 14 E., S. 32 B.T.

A pine 5 ins diam bears S. 70° W. 1200 ft dist.
marked T. 3 N, R. 14 E., S. 31 B.T.

A pine 6 ins diam bears N. 63° W. 300 ft dist
marked T. 3 N, R. 14 E., S. 30 B.T.

Land-mountainous

Soil 4th rate. stony

Pine timber. Mountainous or heavily timbered land 4 to 5 hrs.

Subdivision of T.3 N, R.14 E.—Continued.

September 5; At the cor of secs 29 30 31 and 32, we set off $63^{\circ} N$ on the decl. arc of one of the instruments and at 12^h 00 m on Emt. observe the sun over the meridian, the resulting lat is $40^{\circ}57' N$.

Then we run

E. on a random line bet secs 29 and 32.

4:00 Set time 14 sec. cor.

7:49.96 Intercept N and S line at cor of secs 28 29 32 and 33
Then we run

N on a true line bet secs 29 and 32.

On ascending land, through pine timber

2:00 Lean heavy pine, with young pine timber, bearing N.E.

2:00 Top of ridge bears N and S. 100 ft above sea level; abrupt descent.

2:00 Three less abrupt descent.

3:49.98 Set a gray sand stone 14x10x6 ins 9 ins in ground
for 1/4 sec. cor. marked 1/4 on N face, raise mounted
of stone 2 ft. base 1/2 ft high N of cor. Pits impracticable.
A pine balsam diam. bears N. 12 ft dist marked
1/4 S. 29 B.T.

A pine balsam diam. bears S. 10° E. 6 ft dist. marked
1/4 S. 32 B.T.

5:47.00 Precipitous descent, bearing N. and S.

6:1.00 Foot of precipitous descent. Also S end of lake
15 chs long, 10 chs wide, 9 chs N. general bearing
N. and S.

6:1.50 Spring branch 3 chs wide runs down, drains N. also
bottom of ravine, about 100 ft. below ridge, around 90 ft to

6:5.00 Top of small ridge, bearing N and S. descent, 100 ft to

7:49.96 The cor of secs 29, 30, 31, and 32.

Land mountainous

Soil ~~4 ft~~ rate, stony

Creeks numerous

Mountainous or heavily timbered land 7:49.96 chs.

N 0°4' N. bet. secs 29 and 30.

On N slope through pine timber

1:4.00 $\frac{1}{2}$ edge of pond 2 chs diam.

2:0.00 Enter heavy pine timber, bearing E and S.

2:6.00 A pine 10 ins. diam. on line, marked 2 inches on N and S sides

3:5.50 Ravine, bears N. and S. N.

4:0.00 Set a gray sand stone 14x10x7 ins. 9 ins in ground
for 1/4 sec. cor. marked 1/4 on N face; raise mounted

Subdivision of T. 9 N., R. 14 E. — Continued.

of stone soft base $1\frac{1}{2}$ ft. high & of cor pits impracticable.

A pine 10 ins diam, base 8.17°ft . dist marked $\frac{1}{4} S 29 B.T.$

A pine 16 ins diam base 8.80°ft . dist marked $\frac{1}{4} S. 30 B.T.$

+5.00 A pine 12 ins diam. on line marked 2 notches on N. and S. sides

8.000 Set a gray sand stone $14 \times 10 \times 8$ ins in ground for cor of secs 19, 20, 29, and 30, marked with 2 notches on S and 5 notches on Edge. rain mound of stone soft base $1\frac{1}{2}$ ft. high $\frac{1}{4} S$ cor. Pits impracticable about 15 ft. below last cor.

A pine 4 ins diam. base 7.38°ft . 1.53 chs. dist marked T. 9 N., R. 14 E., S. 20 B.T.

A pine 8 ins diam base 40°ft . 2.26 chs. dist marked T. 9 N., R. 14 E., S. 29 B.T.

A pine 14 ins diam, base 8.15°ft . 1.32 chs. dist marked T. 9 N., R. 14 E., S. 30 B.T.

No trees in sec 19 within limits. This cor stands in east edge of small opening in timber.

Land mountainous

Soil 3rd and 4th rates. gravel and stone

Pine timber

Mountainous or hilly timbered land & rocks.

E on a random line bet secs 20 and 29.

4.000 Set stump $\frac{1}{4}$ sec. cor.

8.000 Intercept N. and S. line hills. N. of cor secs 20, 21, 28, 29, 30. Three $\frac{1}{4}$ a row

7.895°ft . on a tree line bet secs 20 and 29.

On descending N. slope, through pine timber.

Steep descent, leaning N. and S.

3.000 Swale, leaning N. and S. with no apparent drainage

4.001 Set a gray sand stone $18 \times 12 \times 6$ ins 13 ins in ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face.

rain mound of stone soft base $1\frac{1}{2}$ ft. high $\frac{1}{4} S$ cor. Pits impracticable.

A pine 8 ins diam base 7.10°ft . 1.56 chs. dist. marked $\frac{1}{4} S. 20 B.T.$

A pine 10 ins diam base 8.10°ft . 1.56 chs. dist. marked $\frac{1}{4} S. 29 B.T.$

4.000 Top of small ridge, leaning N. and S. divided

Subdivision of T.3 N., R. 14 E.—Continued.

- 8.003 The cor. of secs 19, 20, 29, and 30 about 500 ft. below ne. cor. 1 mile E.
Land mountainous
Soil 4th rate. stony
Pine timber
mountainous or heavily timbered land 8.002 chs.
- September 5; At 4th from pm. L.M.T. we set off 40° 38' N.
on the lat. arc, 628' N. on the decl. arc of one of the
instruments and determine a true meridian with the
solar, at the cor. of secs 19, 20, 29, and 30.
Hence we run
N. 08° 4' W. bet secs 19 and 20.
On N. slope, through pine timber.
3.75 Spring branch, 2 1/2 ft. wide 4 ins. deep, drains S. 37'.
12.00 Steep descent; also leave pine timber, running
N. E. and S. W.
19.00 Less abrupt descent.
36.00 Late Fall, 60 ft. wide, 1 1/2 ft. deep, flows N. E.
Also bottom of cañon, thence around. also
leave pine timber, cut about 400 ft. below ne. cor.
40.00 Set a gray sand stone 12 x 10 x 6 ins 8 ins in
ground for 1/4 sec. cor. marked 1/4 on N. face,
raise mound of stone 2 ft. base 1 1/2 ft. high
W. of cor. Pits impracticable.
A pine 12 ins. diam near N. 13 ft. dist.
marked 1/4 S. 19 B.T.
A pine 12 ins. diam near N. 13 ft. dist.
marked 1/4 S. 19 B.T.
41.50 Top of spur projects E. 50 ft. above cut, about 30 ft. to
44.00 Pond, 2 chs. diam. 1 ch. width, thence ascend along
bottom E. slope.
8.000 Set a gray sand stone 24 x 12 x 5 ins 18 ins in
ground for cor. of secs 17, 18, 19, and 20. marked
with 3 notches on S. and 5 notches on E. edge,
raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
Pits impracticable about 150 ft. above cut.
A pine 14 ins. diam. near N. 18° E., 33 ft. dist. marked
T.3 N., R. 14 E., S. 17 B.T.
A pine 12 ins. diam. near S. 45° E., 35 ft. dist. marked
T.3 N., R. 14 E., S. 20 B.T.
This cor. stands at east edge of pond 2 chs.
diam.

Subdivision of T.35N, R.14 E. - Continued.

	Land mountainous.
	Soil $\frac{3}{4}$ nd and 3rd rates. gravel and stone.
	Pine timber 56.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
5.8957 E.	on a random line bet. secs 17 and 20.
40.00	Set temp $\frac{1}{4}$ acre cor.
80.10	Intersection N and S line 7 miles S of cor of secs 16, 17, 20, 21.
	Thence westward
	No tree line bet secs 17 and 20
	On descending W slope, through pine timber
40.05	Set a gray sand stone 12x8x6 ins. 8 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raised mound of stone 2 ft. base 1/2 ft. high. N. of cor. Pits impracticable A quaking asp 8 ins diam. near N 80° W 38 ft dist. marked $\frac{1}{4}$ S. 17 B.T.
	A pine 14 ins. diam. near S. 5 ft dist marked $\frac{1}{4}$ S. 20 B.T.
59.65	Dark Fork, 60 ft wide 2 ft. deep, flows N, also bottom of cañon, about 800 ft. below cor.
80.10	The cor of secs. 17, 18, 19 and 20; 200 ft. above cañon Land mountainous
	Soil 3 $\frac{1}{2}$ nd and 4 $\frac{1}{2}$ nd rates. gravel and stone.
	Pine timber.
	Mountainous or heavily timbered land 80.10 chs.
	N 80° 4' W on a tree line bet secs 17 and 18.
	On broken east slope through pine timber.
10.00	Top of ridge, bearing N. and S. W. around 60 ft to small drain N.E. around 1 ft to
16.00	Ridge, bears N. and S. W. 75 ft to swale.
21.00	A pine 14 ins diam on line, marked with asp on N and S sides
21.28	Swale, drains N.E.
28.00	Ridge bears N. and S. W.
37.00	Ridge bears N. and S. W.
40.00	Set a gray sand stone 14x12x6 ins 9 ins in ground for $\frac{1}{4}$ acre cor marked $\frac{1}{4}$ on N. face raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable.
	A pine 10 ins diam. near S. 12 ft dist. marked $\frac{1}{4}$ S. 17 B.T.
	A pine 6 ins diam. near S. 12 ft dist. marked $\frac{1}{4}$ S. 18 B.T.

Subdivision of T.3 N., R.14 E.—Continued.

41.55	<p>Intersect Utah and Wyoming Boundary line 12.60 chs W of mile post 333 which is a post marked and witnessed as described by surveyor general.</p> <p>Set a gray sand stone 16x12x8 ins. 11 ins in ground for closing cor. of secs. 17 and 18, marked Cor S. 5 grooves on E and 1 groove on N face, raise mound of stone 2 ft base 1/2 ft high S of cor. Pits impracticable</p> <p>A pine 8 ins diam bears S.40°E. 22 chs dist. marked T.3 N., R.14 E., S.17 B.T.</p> <p>A pine 13 ins diam bears S.100°N. 18 chs dist marked T.3 N., R.14 E., S.18 B.T.</p> <p>Sand-mountainous</p> <p>Soil 3rd rate gravel and stone</p> <p>Pine timber mountainous or mainly timbered land 41.55 chs.</p>
	<i>September 5, 1897.</i>

September 7, 1897: The notes of the measurement of
the N. body of this Sp. show discrepancies beyond
the limits prescribed by the Manual of Instructions;
therefore,

0.50	<p>From the cor. of secs. 29, 30, 31, and 32, we run N. on true line betw. secs. 30, and 31.</p> <p>On descending land, through pine timber Small, drains N. ascend</p>
3.00	<p>Top of small ridge, bears N and S. descend.</p>
15.00	<p>E. edge of lake, extending 1800 chs S. and 12 chs N; point for triangulation: 90 ft below sea level.</p>
23.16	<p>To determine the dist. across, we set a flag on line on N. edge of lake; then measure a base line N. 1000 chs. to a point from which the flag bears S.39°13' W; from the flag the N. end of base bears N.39°13' E., therefore, the dist. is tan 39°13' × base, or $0.816 \times 1000 = 816$ chs. which added to 15.00, makes</p>
27.00	<p>To west edge of lake, three abrupt ascent: 90 ft to top of ridge, bears N and S. descend. 400 ft to canon</p>
27.25	<p>A pine, 14 ins diam, on line, marked with notch on E and N. sides</p>
30.00	<p>Lean pines, bearing N. and S.</p>
40.00	<p>Set a gray granite stone 16x10x8 ins. 11 ins. in ground for 1/4 acre cor. marked 1/4 on N. face raise mound</p>

Sub-division of T. 37 N., R. 14 E.—Continued.

	of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pitt impracticable A pine 12 ins diam. base N. 91 ft. dist. marked $\frac{1}{4}$ S 30 B.T.
No other trees within limits. This cor. stands in edge of small bunch of willows.	
4:00	Lake Fork, 70 ft. wide $1\frac{1}{2}$ ft. deep, flows N. also bottom of cañon, ascend. 350 ft to closing cor.
6:00	Enter young pine timber near N. and S.
7:45	Intersect N. side of Sp. 65 ft. N. of cor. Of sec. 25, 30, 31, and 36 which is a sand stone $5 \times 0 \times 5$ ins. above ground, marked and witness as described by surveyor Quinn, from which an estimate all markings of pertaining to sec. 30, 31
	Set a gray sand stone $16 \times 4 \times 8$ ins. 11 ins. in ground for closing cor. Of sec. 30 and 31, marked C on E. 1 grown on S and 5 grown on N face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high E of cor. Pitt impracticable
	A pine 4 ins. diam. bears N. 85° E. 22 ft. dist. marked T. 37 N., R. 14 E., S. 30 B.T.
	A pine 6 ins. diam. bears S. 43 E. 62 ft. dist. marked T. 37 N., R. 14 E., S. 31 B.T.
	Land - mountainous
	Soil 2nd and 3rd rate. gravelly loam and stone Pine timber 39.32 ch.
	Mountainous land or heavily timbered land 78.15 ch.

September 7; At 8th 00 m. a.m. L.M.T. we set off 4058 ft.
on the Lake fork, 55' 1" N. on the decl. are 3 of our 8
of the instrument, and determine a true meridian
with the solar, at the cor. of sec. 14, 20, 29, and 30

There are now

N. on a tree line bet. sec. 19 and 30.

Our descending land, across small opening in timber
Spring wash 3 ft. wide, 6 ins. deep, drains S. 15° W.
Also bottom of draw, ascend.

4:00	Enter pine timber, bears N. and S.
6:00	Spur, projects S. 10° W. descend 300 ft to creek
6:00	Lean pine timber bears N. and S.
13:35	Lake Fork 60 ft. wide $1\frac{1}{2}$ ft. deep flows N. also bottom of cañon, ascend 200 ft. to
22:00	Spur, projects N. E. descend. 30 ft. to
24:00	Draw, drains N. E. ascend. about 100 ft. to young pines

Subdivision of T. 3 N., R. 14 E., - Continued.

- 40.00 Set a gray sand stone 14x10x10 ins. 9 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise mound
of stone 2 ft base 1 1/2 ft. high N of cor. Pits impracticable
A pine 5 ins. diam. bears N. 18 1/2 chs dist. marked
1/4 S. 19 B.T.
A pine 6 ins. diam. bears S. 5° E 34 chs dist. marked
1/4 S. 30 B.T.
- 45.00 Bear young pines, enter heavy pine timber, bears N & S.
50.00 Top of ridge, bears N. and S. 350 ft. above canon, descended 40 ft.
57.00 Swale, drains N.E. ascended 80 ft.
61.00 Ridge, bears N.E. and S.W. descended 40 ft to
65.00 Swale, drains N.E., ascended 70 ft to
72.00 Thence across small flat, bearing N. and S.
78.24 Intercept N. edge of Tp. 58 1/2 N. of cor of secs 19, 24,
25 and 30, which is post, marked and witnessed
as described by Surveyor, from which distance all roads, opportunity time 1/30.
- The point of intersection falls in pond;
therefore, at a point 44 chs E of the point
of intersection, set
- Set a gray sand stone 24x14x5 ins 18 ins in ground
for witness cor. to closing cor. of secs 19 and 30,
marked W.C.C.C. on E, 2 grooves on S. and 4
grooves on N. faces. raise mound of stone
2 ft base 1 1/2 ft high E. of cor. Pits impracticable.
A pine 14 ins diam. bears N. 35° E. 109 chs dist.
marked W.C., T. 3 N., R. 14 E., S. 19 B.T..
A pine 10 ins. diam. bears S. 10° E 14 1/2 chs dist.
marked W.C., T. 3 N., R. 14 E., S. 30 B.T.
- Land mountainous
Soil 3rd and 4th rates. gravel and stone.
Pine timber 58.24 chs.
Mountainous or heavily timbered land 78.24 chs.
- From the cor of secs 17, 18, 19, and 20, we run
W. on a true line bet. secs. 18 and 19.
On ascending land, through pine timber
N. edge of pond.
- 2.00 N. edge of pond 3 chs long, 2 chs wide, gravel
bearing S.W. ascended 30 ft to
4.00 Top of ridge, bearing S.W. and N.E. descended 60 ft to
6.50 Swale, drains N.E. ascended 70 ft to
13.50 Top of ridge bearing S.W. and N.E. descended 30 ft to
17.00 Top of ridge bearing S.W. and N.E. descended 30 ft to

Subdivision of T.3 N., R. 14 E. - Concluded.

- 2.000... valley, drains N.E. around 300 ft. to top of ridge
4.000 Set a gray sand stone 18 x 12 x 6 ins 12 ins in
ground, for 1/4 sec. cor. marked 1/4 N face,
raise mound of stone 2 ft. base 1 1/2 ft. high
N. of cor. Site impracticable.
A pine 5 ins diam near N. 20° E. 1.5 miles dist.
marked 1/4 S. 18 B.T.
A pine 6 ins diam, near S. 18° E. 2 miles dist.
marked 1/4 S. 19 B.T.
44.00 Dark, 2 chs wide, 8 chs N 25° E and 5 chs S 25° N.
51.00 Edge of road 1 ch. down.
59.00 Ridge, near S. N. and N.E. drained. 30 ft. hi
62.00 Swale, near S. N. and N.E. with no apparent
drainage, around 170 ft. to closing cor.
67.50 A pine 10 ins diam on line marked & notches on East & West sides
Intersect N. Bdy. of Tp. 20.8 chs S. of cor. of secs 18,
18 1/2, and 24. which is a granite stone 5 x 10 x 6
ins above ground, marked and returned as discov-
ed by quarry gravel, from which an ultimate alluvium of pertaining to secs 18 and 19.
Set a gray sand stone 16 x 8 x 6 ins 11 ins in ground
for closing cor of secs 18 and 19, marked C on
E, 3 grooves on N and S faces. raise mound of
stone 2 ft. base 1 1/2 ft. high E. of cor. Site impracticable.
A pine 8 ins diam, near N. 20° E. 3 1/2 miles dist.,
marked T. 3 N., R. 14 E., S. 18 B.T.
A pine 10 ins diam, near S. 10° E., 1 1/2 miles dist.
marked T. 3 N., R. 14 E., S. 19 B.T.
Land mountainous
Soil 3rd and 4th rates gravel and stone
Pine timber mountainous & heavily timbered land 75.08 chs.

September 7, 1897

General Description.

This fractional township contains only mountainous land. The soil ranges from 1st to 4th rates. Grass is abundant where the timber is not so thick that the sunlight can't reach the ground.

Nearly the whole of the township is covered with a very dense growth of pine and quaking asp-

timber, which is principally young, or a second growth. The first growth was nearly all fire killed.

Water is abundant on the whole township. Numerous lakes and ponds of various sizes, are to be found in small basins on the different slopes. All of these could not be located, because the dense growth of timber prevented their being seen. The water is all pure and cold.

The altitude is too great for the raising of any kind of crops except hay; and the land can be used to advantage only for grazing purposes. There are no indications of mineral in the township.

There are no settlers on the township.

James Wilson, the applicant for survey of this Twp., has moved away.

Frank E. Basler

William B. Dougall.

U.S. Deputy Surveyors.

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— Extra Notes —

Retracement of the 330th and 331st
miles of the Utah and Wyoming Boundary
line

Retracement of the west boundary
of T.3 N., R.14 E.

Retracement of the 330th and 331st miles of the Utah and Wyoming Bdy. line

September 6, 1897; By re-measuring the closing distance bet. mile post 328 on the Utah and Wyoming bdy. line, and the closing cor. of T. 3 N., R. 14 and 15 E., we find it to be 8.73 chs. instead of 7.00 chs., as given in the notes of the original survey.

From mile post 329 on Utah and Wyoming bdy. line, which is a pine post, marked and situated as described by surveyor general, we run

N. along 330th mile of the Utah & Wyoming bdy. line
On S. slope, through quaking asp. timber, with a few scattering pines, which gradually grow thicker toward the west.

- | | |
|-------|--|
| 8.72 | The closing cor. of sec. 13 and 14, T. 3 N., R. 14 E. |
| 40.10 | Spring branch, 2 ft. wide 3 in. deep, drains S. thence ascend on S.E. slope |
| 72.00 | Thence goth ascend approaching top of ridge, |
| 77.90 | Fall 1 M. S. of mile post 330 on Utah and Wyoming Bdy. line
which is a pine post, marked and situated as described by surveyor general.
This cor. stands on top of ridge, bearing N. 20° E. and S. 20° W.
Land mountainous.
Soil 2 nd rate. |

September 6; At 8th am. left. in air off 41° 0' N on latarc,
61° 13' N on decl arc of one of the instruments and determined a true meridian with the solar, at mile post 330 on Utah and Wyoming bdy. line.

- | | |
|-------|--|
| 10.85 | Thence we run |
| 24.50 | N. along 331 st mile of Utah and Wyoming bdy. line |
| 29.00 | On drumming land, through pine and quaking asp. timber. |
| 56.00 | The closing cor. of sec. 14 and 15, T. 3 N., R. 14 E. |
| 78.50 | Dear timber, bear N. and S., thence across small valley, draining N. Enter dense pine timber bearing N. and S. ascend from valley. |
| | Enter plateau, bear N. and S. |
| | Fall 1 M. S. of mile post 331 on Utah and Wyoming Bdy. line, which is a pine post, marked and situated as described by surveyor general. |
| | Land mountainous. |
| | Soil 2 nd and 3 rd rates. |
| | Pine timber 49.50 chs., Pine and quaking asp. 24.50 chs. |

Retracement of N. bdy. T. 3 N., R. 14 E.

By comparing the closing and intersection distances of an subdivision line, on the Utah and Wyoming bdy line on N. bdy. of T. 3 N., R. 14 E. with those of the original survey of the west bdy of Tp., discrepancies, beyond the limits prescribed by the Manual of Instructions are shown; therefore we retraced the N. bdy of T. as follows:

From the cor. of Tps. 2 and 3 N. Rs. 13 and 14 E. which is a granite stone 7x12x4 ins. above ground, marked and witnessed as described by surveyor general, we run N. on N. bdy of Tp. betw. sec. 31 and 36.

Along E. slope, through young pine timber.

34.00 Pond 2 chrs. diam.

39.92 The 1/4 acre. cor. which is a granite 5x10x5 ins above ground, marked and witnessed as described by surveyor general.

55.00 Spring branch, 7 ft. wide lies deep, flows E.

63.30 Spring branch, 4 ft. wide lies deep, flows E.

80.70 The cor. of secs 25, 30, 31, and 36, which is a sand stone 5x10x5 ins. above ground, marked and witnessed as described by surveyor general.

Land mountainous,

Soil 3rd and 4th rate.

Pine timber.

Sept. 6, 1897. At 12th o'clock m. l.m.t. we set off 80° N. on the decl arc of one of the instruments, and observe the sun on the meridian at cor of sec 25, 30, 31 and 36, the resulting lat is 40° 57' N.

There we run

N. W. secs. 25 and 30.

Along E. slope, through pine timber

39.45 Fall 2 ft. N. of 1/4 acre. cor. which is a sand stone 5x10x6 ins above ground marked and witnessed as described by surveyor general.

60.00 Enter flat, running N.E. and S.W.

78.75 The cor of secs 14, 24, 25, and 30 which is a post 4 ins sq. 2 ft above ground, marked and witnessed as described by surveyor general.

Land mountainous

Soil 3rd and 4th rate.

Pine timber.

Retracement of Mr. Bdy. of T. 3 N., R. 14 E. — Concluded

	N. but secs 19 and 24.
0.10	Over nearly level land through pine timber S.E. edge of Pond, 3 chs. diam.
2.00	N.E. edge of same.
23.00	Thence ascend on S.E. slope.
41.30	Fall sets E. of $\frac{1}{4}$ sec. cor. which is a quartzite stone $6 \times 10 \times 5$ ins above ground marked and witnessed as described by surveyor general
61.00	Ridge runs N.E. and S.W. descends.
72.00	Bottom of draw, drains N.E. ascend.
82.68	Fall W.W. of cor. of secs. 13, 18, 19, and 24, which is a quartzite stone $5 \times 10 \times 6$ ins above ground, marked and witnessed as described by surveyor general.
	Land mountainous
	Soil 3 rd and 4 th rates
	Pine timber

	N. but secs 13 and 18.
	On ascending land through pine timber
3.00	Thence along E. slope
39.00	Interest Utah and Wyoming bdy. line 10.60 chs. 21. of mile post 334 which is a post 6 ins sq. 5 ft above ground marked and witnessed as described by surveyor general.
40.05	The old $\frac{1}{4}$ sec. cor. which is a quartzite stone $5 \times 8 \times 6$ ins. above ground marked and witnessed as described by surveyor general
48.00	The old closing cor for T. 3 N., R. 13 and 14 E. which is a quartzite $5 \times 10 \times 9$ ins above ground, marked and witnessed as described by surveyor general.
	Land mountainous.
	Soil 3 rd rate
	Pine timber

September 6, 1897.

Frank E. Barker
William B. Dougall.
U. S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by the United States Deputy Surveyor, to assist in running, measuring, and surveying the lines and corners described in the foregoing field notes of the survey of the State of Michigan, and their respective experience in which they acted:

Chairman,
Chairwoman,
Measureman,
Measurewoman,
Surveyor,
Surveyor,
Fitterman

FINAL OATH OF ASSISTANTS.

We hereby certify that we executed

the last day of May, A.D. 1849, at Detroit, the following oaths in the presence of the

Chairman,
Chairwoman,
Measureman,
Measurewoman,
Surveyor,
Surveyor,
Fitterman,

and are ready to take the

day of



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of day of 180 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of of the meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of 180 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 7, 1853

The foregoing field notes of the survey of ~~the several divisions of Township~~
~~3 North Range & East of the Salt Lake Basc. & Meridians~~
~~Utah~~

executed by *Frank E. Baxter & William B. Moggall*
under my contract No. *24*, dated *July 21st*, 180 , having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. B. -
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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BOOK A-247

S. S. B.

FIELD NOTES

OF THE SURVEY OF THE

West Boundaryof

Township No. 8 North, Range No. 6 East,

The Attachment of

The Second Standard Parallel North

On the South Boundary of

Township No. 9 North, Range No. 6 East,

The Resurvey of

Part of the South Boundary of

Township No. 8 North, Range No. 6 East,

of the Salt Lake Base and Meridian,

in the State of Utah

AS SURVEYED BY

John E. Baxter and William B. Dougall, United States Deputy Surveyors
under his Contract No. 214, dated July 5, 1897

Survey commenced September 9, September 11, and September 13, 1897

Survey completed September 10, September 11, and September 13, 1897

6-161

W-Bing Light 5-76-74 ✓
 drawing - 12-00 ✓

Contingent
2nd Stand. Oct. 11 5-71-31 ✓
 So. Boring - 5-03-10 ✓

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Striper	Chairwoman
James W. Welch	Chairwoman
James Stewart	Member
David H. Gray	Member
Walter W. McLaughlin	Associate
Thomas Slater	Associate
George W. Dougall	Flagman
Charles Lallis	Flagman

6-161

Volume

#

R0247

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman

....., Chainman

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman

....., Moundman

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman

....., Axman

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this }
day of , 189 }



West Boundary of T.8 N., R.6 E.

Sunry commenced September 9, 1897 and excelled with two W and L.E. Burley light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the Surveyor General for Utah, August 2, 1897.

To examine the adjustments of the transits and correct the level and collimation errors, then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, we proceed as follows:-

At the cor. of Tps. 7 and 8 N., R. 5 and 6 E., latitude $41^{\circ}23'N$, longitude $111^{\circ}47'W$, we set off $41^{\circ}23'N$. on the lat. arc, $45^{\circ}58'N$ on the decl. arc of one of the instruments, and at $3^{\text{h}}30^{\text{m}}$ p.m. l.m.t. determine with the solar, a true meridian and mark a point thereon on a plug driven in the ground 5 chs. N. of cor.

With the second instrument placed over the same initial point, we set off $41^{\circ}23'N$ on the lat. arc, $45^{\circ}58'N$ on the decl. arc; and at $3^{\text{h}}40^{\text{m}}$ p.m. l.m.t., determine with the solar a true meridian and mark a point thereof on the plug already set 5 chs. N. of our station. This point falls a. i. ins. west of that of the 1st instrument.

At $8^{\text{h}}34^{\text{m}}$ p.m. by our watches which are $25^{\text{m}}16^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation, with the 1st instrument, in accordance with the Manual of Instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of our station.

September 9, 1897.

West Boundary of T. 8 N., R. 6 E.-Continued

September 10, 1897, At 6^h 00^m a.m. l.m.t. we lay off the azimuth of Polaris $10^{\circ}39'$ to the west and mark the true meridian thus determined, with the 1st instrument, by a pencil mark on the stake at September 9, on which the true meridian falls 0.1 in east of the mark determined by the solar of the 1st instrument, and 0.2 in east of that of the 2nd instrument.

At 7^h 00^m a.m. l.m.t. we set off $41^{\circ}23'N$ on the lat arc, $44^{\circ}45'N$ on the decl. arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls 0.2 in east of the true meridian established by the Polaris observations.

At 7^h 05^m a.m. l.m.t. we set off $41^{\circ}23'N$ on the lat arc, $44^{\circ}45'N$ on the decl. arc of the 2nd instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls 0.3 in east of the true meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations define positions for true meridians, respectively about $0^{\circ}5'$ west and $0^{\circ}11'$ east of the true meridian established by the Polaris observations - with the 1st instrument, and $0^{\circ}11'$ west and $0^{\circ}16'$ east of the same with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian at 8^h 30^m a.m. is N. $17^{\circ}16' 27''$ E., the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $17^{\circ}13' E.$

We begin at the cor of Ipe and 8 N. R. 6 and 6 E. which is a sandstone 6 + 10 x 6 in. above ground, marked and entered as described by surveyor general.

Three more

N. bet sides 31 and 36.

On ascending land, 100 ft. to

1300 Top of ridge, near E. and W. dip and 200 ft. to

2340 Ravine, drains S., ascend. 175 ft. to

West Boundary of TSN R 6 E - Continued

37.50	Slope, projects S.E. descended 150 ft to ravine
40.00	Set a red sand stone 20 x 10 x 10 ins. 15 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raise mound of stone 2 ft base 1 1/2 ft. high 1 1/2 in. Pit is impracticable.
56.00	Ravine, drains S 50° E, around 250 ft to
76.50	Top of ridge, also wagon road, base E and N. three descent on N. slope 220 ft to ravine
80.00	Set a gray sand stone 16 x 12 x 6 ins. 11 ins in ground for corf size 25, 30, 31, and 36, marked with 1 notch on S and 5 notches on N. Edges, raise mound of stone 2 ft base 1 1/2 ft high 1 1/2 in. Pit is impracticable.
	Sand mountainous
	Soil, clay, stone and gravelly base, 3rd note.
	No timber
	Mountainous land 8000 ft.

N. elev. nos. 25 and 30

On descending land.

13.50	Ravine, drains N. E. around, 75 ft to
21.50	Slope, projects N. E. descended 450 ft to ravine
45.00	Set a gray sand stone 20 x 6 x 6 ins 15 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raise mound of stone 2 ft base 1 1/2 ft high 1 1/2 in. Pit is impracticable.
48.50	Bottom 1/2 one section, Spring branch 8 ft wide 5 in. deep, flows E. around. 3 or 4 ft. to open
55.50	wagon road, base E and N.
68.50	Slope, projects S.E. descended 150 ft to ravine
50.00	Set a gray sand stone 18 x 10 x 8 ins. 12 ins in ground for corf size 19, 24, 25, and 30, marked with 2 notches on S and 4 notches on N edges, raise mound of stone 2 ft base 1 1/2 ft. high, 1 1/2 in. Pit is impracticable.
	Sand mountainous
	Soil clay, stone and gravelly base, 3rd note.
	No timber
	Mountainous land 8000 ft.

N. elev. nos. 19 and 24

On descending land

West Boundary of T. 8 N, R. 6 E.-Continued

7.50	Bottom of ravine, also way on road, bears S 70° E and N 70° W, ascnd. 250 ft to
37.50	Top of ridge, bears S and N. ascnd. 300 ft to
40.00	Set a gray sand stone 18x8x6 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N face raise mound of stone 2 ft base 1 1/2 ft. high N of cor. Bits impracticable.
74.50	Bottom of ravine, spring branch 1/4 mile wide 1 in deep drains E. ascnd. 150 ft to spur
80.00	Set a gray sand stone 20x10x10 ins 15 ins in ground for cor. of sec. 13, 18, 19, and 24 marked with 3 notches on N and S. Edges. raise mound of stone 2 ft base 1 1/2 ft high N of cor. Bits impracticable: Land mountainous Soil; clay, stone and gravelly. loam 3rd rate. no timber. Mountainous land 8.000 chs.

	September 10. At the corner of sec. 13, 18, 19, and 24, we set off +38' N on the due. w. of one of the instruments and at 12 ^h 00 m. l.m.t. observe the sun on the meridian, the resulting lat. is +12° 5' N. These we run N. but. sec. 13 and 18 On ascending land
9.50	Spur, projects S.E. ascnd. 50 ft. to
13.50	Butch, drains S. ascnd. 250 ft. to ridge
40.00	Set a gray sand stone 16x10x8 ins, 11 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N of cor. Bits impracticable
42.50	Top of ridge, bears S and N. ascnd. 100 ft to
57.50	Draw, drains S. ascnd. 125 ft. to ridge
80.00	Set a gray sand stone 15x8x8 ins 10 ins in ground for cor. of sec. 7, 12, 13, and 18, marked with notches on N and 4 notches on S. Edges. raise mound of stone 2 ft. base 1 1/2 ft. high N of cor. Bits impracticable Land mountainous Soil stony and loam 3rd rate No. timber Mountainous land 8.000 chs.

West Boundary of T.8 N., R.6 E.—Continued.

N. bet. sec. 7 and 12.

On ascending land.

- 16.00 Top of ridge, also wagon road, near E. and W. descent.
 Gulch, drain E. 100 ft. below ridge, ascend 75 ft. to spur.
 Set a gray sand stone 17 x 10 x 6 ins 12 ins in ground
 for 1/4 sec. cor. marked 1/4 on N. face, raised mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
 47.50 Spur projects E. descended along slope facing
 N. 80° E. 200 ft. to ravine.
 8.00 Set a gray sand stone 22 x 12 x 7 ins 16 ins in
 ground for cor. of secs. 1, 6, 7, and 12, marked with
 1 notch on N and 5 notches on S edges raised mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
 Sand-mountainous
 Soil stony and loam 3rd and 4th water
 No timber
 Mountainous land 8000 chs.

N. bet. sec. 1 and 6.

On descending land.

- 7.50 Ravine, drain E. ascend. 100 ft. to
 Spur projects E. descended on steep N. slope. 500 ft. to west
 4.00 Set a cobble stone 16 x 6 x 6 ins. 11 ins. in ground
 for 1/4 sec. cor. marked 1/4 on N. face, raised mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
 67.50 Woodruff or 17 mile cut, 20 ft. wide 2 ft. deep, also
 bottom of cañon, drain E. ascended 150 ft. to
 76.74 Interest. Second Standard Parallel "Notch" on
 Dr. body of T. p. 12 & 6 che 5892 1/2 ft. of the standard cor
 of 5.9 N., R. 6, 5 and 6 E. which is a slate stone
 7 x 10 x 6 ins. above ground, marked and situated
 as described by surveyor general.
 Set a gray sand stone 20 x 10 x 6 ins 15 ins in
 ground for closing cor. of 5.8 N., R. 6, 5 and 6 E.
 marked C. C. 5.8 N. and 6 E. on E and 5 E. on N. with 6. ground 5 E.
 and N. faces. raised mound of stone 3 ft. base 2 ft.
 high S. of cor. Pits impracticable.
 Sand-mountainous
 Soil; clay, stony and loam, 3rd and 4th water
 No timber.
 Mountainous land 76.74 chs.

September 10, 1897.

General Description —

For general description, see notes of the running
of the subdivision lines of T.8 N. R.6 E.

Frank E. Bartles

William B. Dougall

U.S. Deputy Surveyor.

Extra Notes —

Retracement of the Second Standard Parallel North on S. Body of T.9 N. R.6 E.

The intersection of the N. Body of T.8 N. R.6 E. with the
Second Standard Parallel North shows a discrepancy
beyond the limit prescribed by the Manual of Instruction,
therefore retrace the Second Standard Parallel North
on S. Body of T.9 N. R.6 E. as follows:-

September 11, 1897. From the standard cor of

T.9 N. R.6 and 7 E. which is a red sand stone.

30 + 12 1/2 ins set in mound of stone mashed and
interspersed as described by surveyor general, we run
N. on S. Body of sec 36

Over descending land, through scattering cedar trees

2.000 Larch cedar, leaning N. and S.

2.4.56 Ravine, 150 ft. deep drains N.E. ascend

3.5.06 Small spm., projects N.E. 100 ft above ravine, drained

fall 17 ft. N. of the ^{standard} 1/4 sec. cor. which is a sand stone
5x12x7 ins above ground mashed and interspersed as
described by surveyor general.

4.4.60 Ravine 100 ft below spm., drains north, also wagon
road in bottom, ascend

61.80 Point of ridge projects N., 190 ft above ravine, descend

73.00 Ravine, 125 ft below, point drains N.E. ascend

78.96 Fall 14^{1/2} ft. N. of the standard cor of secs 35 and 36
which is a sand stone 5x8x5 ins above ground mashed
and interspersed as described by surveyor general
Land mountainous

Soil, gravel and stone, 3rd and 4th natis

Scattering cedar trees 2600

The S. Body of sec. 36 bears S. 89° 5' N.

amount of the Second Standard Parallel North on S. bdy. of 59th R. & E. continued

From our point, 140 chs. N. of the standard cor. of secs
35 and 36 we continue our line.

West near S. bdy. of sec 35

On arced land.

39.39 Fall 121 chs. N. of the standard 1/4 sec cor. which is a
sand stone 7 x 12 x 8 ins above ground, marshy and
watered as described by surveyor general.

5.8.03 Enter plateau bearing E. N. W. 20 ft. above last ravine.

7.8.88 Fall 105 chs. N. of the standard cor. of secs 34 and 35
which is a sand stone 5 x 15 x 9 ins above ground
marshy and watered as described by surveyor general.
Therefore the S. bdy. of sec 35 bears N. 89° 43' W.

Land mountainous

Soil, gravel and stone, 3rd and 4th rates
no timber

From our point 100 chs. N. of the standard cor. of
secs 34 and 35 we continue our line

West near S. bdy. of secs 34.

On plateau.

2.30 Top of knoll, 20 ft. high.

21.00 Small ravine drains N. N. W. 50 ft. deep, ascend

3.000 Ridge bears N. and S. 75 ft. above ravine descend

37.50 Ravine, drains N. 75 ft. below, ridge ascend

39.20 Fall 195 chs. N. of the standard 1/4 sec cor. which is a
sand stone 6 x 8 x 4 ins above ground, marshy and
watered as described by surveyor general.

49.10 Ridge bears N. N. and S. E.

79.50 Ravine drains N. 75 ft below Ridge ascend

78.43 Fall 290 chs. N. of the standard cor. of secs 33 and 34
which is a sand stone 5 x 12 x 5 ins above ground
marshy and watered as described by surveyor general.
Therefore the S. bdy. of sec 34 bears S. 83° 34' W.

Land mountainous

Soil sandy loam and gravel, 2nd and 3rd rates
no timber

From our point 290 chs. N. of the standard cor. of
secs 33 and 34 we continue our line

West near south bdy. of sec 33.

Along N. slope.

- 5.00 Ravine drains N. and gushy
10.50 Road, bears N and S.
39.05 Fall 2nd ch. N of the standard 1/4 sec. cor. which is a
sandstone 5x14x5 ins above ground, mashed and
intertuned as described by surveyor general.
49.50 Ridge bears N and S. discord 100 ft. to
66.05 Ravine, drains N. 60° N. ascends along broken N. slope
79.85 Fall 2nd ch. N of the standard cor. of secs 32 and 33 which
is a sandstone 5x10x3 ins above ground, mashed and
intertuned as described by surveyor general.

Therefore the S.Bdy. of sec 33 bears N 89° 1' N.

Sand mountainous

Soil, sandy loam gravel and stone ~~3rd and 4th ratios~~
No timber

September 11, 1897, At this cor. in alt off 4° 15' N on the side
are found 1 the instrument and at 1st 56th a.m.gmt
obum the sun on the meridian the resulting lat 4° 2' 8" N

From our point 2nd ch. N of the standard cor. of sec
32 and 33 we continue our line

West, near S.Bdy. of sec 33

Along broken N. slope.

- 13.00 Ravine drains N. N.
32.00 Ravine drains N
37.00 Ravine drains N.
39.02 Fall 1st ch. N of the standard 1/4 sec. cor. which is a
boulder 5x10x8 ins above ground, mashed and intertuned
as described by surveyor general.

78.00 Fall 1st ch. N of the standard cor. of secs 31 and 33
which is a boulder 5x10x8 ins above ground, mashed and
intertuned as described by surveyor general.

Therefore the S.Bdy. of sec 33 bears N 89° 3' N.

Sand mountainous

Soil gravel and stone, ~~3rd and 4th ratios~~

No timber

From our point 1st ch. N. of the standard cor. of sec
31 and 33 we continue our line

Of the Second Standard Parallel North on S.bdy. of T.9 N, R.6 E., Concluded.

	West, near S.bdy. of sec. 31.
3.50	One broken n slope.
11.50	Rainie drains N.
27.00	Rainie drains N.
38.60	Fall 105 chs n of the standard 1/4 sec. cor. which is a boulder 5 x 8 x 5 ins. above ground marked and witnessed as described by surveyor general
45.00	Rainie drains N.
61.50	Woodruff or 1/2 mile Crust 20 ft. wide 2 ft. deep, in bottom of canon, drains N.E.
77.25	Fall 69 chs N of the standard on S.bdy. of T.9 N R.5 and 6 E., which is a slate stone 7 x 10 x 6 ins above ground marked and witnessed as described by surveyor general. Therefore the S.bdy. of sec 31 bears N.89°50' E.
	Land mountainous
	Soil gravel and stone 3rd and 4th rates
	No timber

September 11, 1897.

Resumy of Part of the S.bdy. of T.8 N, R.6 E.

The statement of the Second Standard Parallel North on the S.bdy. of T.9 N, R.6 E., does not show sufficient error to bring the correction of intersection of the N.bdy. of T.8 N, R.6 E., within the prescribed limit. Therefore to show the whole error, in trace and running portions of the S.bdy. of T.8 N, R.6 E.

September 13, 1897. From the cor. of secs. 1, 2, 3, 5, and 36 in run N.89°50' W along S.bdy. of sec. 35; at 39.94 chs fall 141.8 of the 1/4 sec cor; and at 79.90 chs. fall 141.7 of the cor. of secs. 2, 3, 4, and 35, on S.bdy. of T.p. Therefore the S.bdy. of sec 35 bears N.89°50' W and our chaining practically agrees with the field notes of the original survey. We continue our line N.89°50' W. and at 40.43 chs

Resumé of Part of the S. Bdy. of T. 8 N., R. 6 E.-Continued

intersect the $\frac{1}{4}$ sec. cor. and at 80.86 chs, intersect the cor. of secs. 3, 4, 33, and 34. We continue our line N 89° 50' W, and ^{find} none of the remaining portion of the S. bdy. of the Tp. connect in either alignment or distance. At 242 $\frac{3}{4}$ chs from the cor. of secs. 23, 34, and 35, fall 18.0 chs S of the cor. of Tps. 7 and 8 N, R. 5 and 6 E. here-to-far described. Therefore we resume part of the S. bdy. of the Tp. as follows:-
The preliminary line, shows that the S. bdy. of sec. 34 bears N 89° 50' W, and the S. bdy. of secs. 33, 32 and 31 bears N 89° 24' 57" W.

From the cor. of secs. 23, 34, and 35, we run N 89° 50' W on a true line along S. bdy. of sec. 34.

On ascending land.

- 3.000 Spur 100 ft. above sec. cor. projects N.E. discord
4.000 Set a gray sand stone 18 x 10 x 6 ins. 1.5 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raised mound
of stone 2 ft. base $\frac{1}{2}$ ft. high N of cor. Pits
impracticable
40.45 The old $\frac{1}{4}$ sec. cor. which is a sand stone 6 x 7 x 6 ins.
above ground, marked and witnessed as described
by surveyor general
These cor. both stand in a wide swale draining
N.E.
45.05 Arced on S.E. slope
63.00 Ridge 300 ft. above swale, bears N.E. and S.W. discord
80.00 Set a gray sand stone 20 x 10 x 6 ins. 1.5 ins in
ground for of secs. 33 and 34. only, marked with 3
notches on E and N edges, raised mound of stone 2 ft.
base $\frac{1}{2}$ ft. high N of cor. Pits impracticable
Land mountainous
Soil, gravel and stone 3rd and 4th rates
No timber

N 89° 50' W, along S. bdy. of sec. 33.

On descending land.

- 0.86 The old cor. of secs. 3, 4, 33, and 34, which is a sand
stone 6 x 2.6 x 4 ins above ground marked and witnessed
as described by surveyor general, from which we
obliterate all markings appertaining to secs. 33 and 34.

Resumy of Part of the S. Body S. T. E. N. R. b. E. - Continued

	Thinner and cause change to N 89° 24' W.
600	Gulch 25 ft deep, drains N.E.
13.00	Spur, projects N.E., 100 ft. above gulch, discord.
26.00	Gulch, 90 ft below ridge, drains N, discord
30.00	Spur, 75 ft above gulch, projects N, discord
40.00	Set a gray sand stone 16x10x7 ins 11 ins in ground for 1/4 sec. cor. masked 1/4 on N face, raised mound of stone 2 ft base 1 1/2 ft high N.E. cor. Pile impracticable.
41.20	The old 1/4 sec. cor. which is a sand stone 10x8x5 ins above ground, masked and intersed as described by surveyor general
66.50	Bottom of canon 250 ft below last spur, drains N.E.
68.00	Spring branch beds wide 6 ins. deep floor N.E. discord
70.50	Wagon road bears N.E. and S.W. thence ascend steep slope
80.00	Set a gray sand stone 16x10x6 ins 11 ins in ground for cor. of secs 32 and 33 only, masked with 2 notches on N and 4 notches on E edge, raise mound of stone 2 ft base 1 1/2 ft high N.E. cor. Pile impracticable
	Sand mountainous
	Soil gravel and stone 3rd and 4th ratios
	No timber

	N 89° 24' W, along S body of sec 32
	On ascending land, on steep S slope
1.58	The old cor. of secs. 4, 5, 32 and 33, which is a sand stone 5x8x3 ins. above ground masked and intersed as described by surveyor general, from which we obliterate all markings appertaining to secs. 32 and 33.
18.00	Sand stone ledge oft high, bears N. and S.
40.00	Set a gray sandstone 12x8x6 ins 8 ins in ground for 1/4 sec. cor. masked 1/4 on N face raise mound of stone 2 ft base 1 1/2 ft high N.E. cor. Pile impracticable
42.00	The old 1/4 sec cor. which is a sand stone 5x8x7 ins above ground, masked and intersed as described by surveyor general.
48.00	Thinner discord on steep S.W. slope.
68.00	Wagon road bears S. 60° E. and N. 60° W.
69.25	Spring branch beds wide 6 ins deep, drains S.E. also bottom of canon, 200 ft below point of discord on slope
73.00	Enter scattering pine timber, bears N. 70° W. and S. 70° E.

Resurvey of Part of the S. Body of T. 8 N., R. 6 E. - Concluded

- 8.00 Set a red sand stone $16 \times 16 \times 6$ ins. 11 ins. in ground for cor. of sec. 31 and 32, only, marked with 1 notch on it and 5 notches on Edges, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable A pine 8 ins. diam near $N.80^{\circ}E.$ 31 the dist. marked T. 8 N., R. 6 E., S. 32 B. T. A pine 7 ins. diam near $N.57^{\circ}N.59^{\circ}$ the dist. marked T. 8 N., R. 6 E., S. 31 B. T.
Sand mountainous
Soil, gravel and Stone 3^{rd} and 4^{th} rates
Scattering pine timber 7 chs.
-
- $N.89^{\circ}24'N.$ along S. body of sec. 31.
On ascending land through scattering pine timber
2.50 The old cor. of sec. 5, 6, 31 and 32, which is a sandstone $5 \times 8 \times 3$ ins above ground marked and intimated as described by surveyor general, from which we obliterate all markings appertaining to sec. 31 and 32.
6.00 Larch pines, near $N.8$ and $S.7$.
8.00 Spur, projects $n.100$ ft. above canon descend.
24.00 Bottom of canon, a pine branch 6 ft. wide 6 ins. deep 90 ft. below spur. drains $N.80^{\circ}E.$ thence ascend along bottom of canon
46.00 Set a gray sand stone $18 \times 10 \times 5$ ins. 12 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
43.00 The old $\frac{1}{4}$ sec. cor. which is a sand stone $5 \times 8 \times 7$ ins above ground, marked and intimated as described by surveyor general
52.60 Major road near $N.80^{\circ}E.$ thence ascend on S. E. slope.
83.20 The cor. of T. sec. 7 and 8 N. R. 5 and 6 E., hitherto described
Land mountainous
Soil, gravel and stone, 3^{rd} and 4^{th} rates
Scattering pine timber 6 chs.

September 13, 1897.

Frank E. Baxter
William B. Dougall
U.S. Deputy Surveyors.

Latitudes, departures, and closing errors.

Line Designated	True Bearing	Distance	Latitude	Departure	
			E. or S.	E. or W.	N.
W 1/2 Std 58° N., R. b. E.	North	476.74	476.74		
and Standard Parallel.					
Std 36 59' N., R. b. E.	N. 89° 29' E.	12.00	0.01	12.00	
Std 32 59' N., R. b. E.	S 89° 30' E.	77.25	0.67	77.25	
Std 34 59' N., R. b. E.	S 89° 33' E.	78.00	0.60	78.00	
Std 33 59' N., R. b. E.	S 89° 21' E.	79.85	0.90	79.85	
Std 34 59' N., R. b. E.	N 89° 37' E.	78.43	0.53	78.43	
Std 35 59' N., R. b. E.	S 89° 43' E.	78.88	0.40	78.88	
Std 36 59' N., R. b. E.	N 89° 40' E.	78.90	1.38	78.90	
E 1/2 Std 58° N., R. b. E.	South	480.00	480.00		
E 1/2 Std 58° N., R. b. E.	N. 89° 50' W	240.86	0.72	240.86	
W 1/2 Std 58° N., R. b. E.	N. 89° 24' E	242.84	2.52	242.34	
Consequently				0.64	
		481.90	482.57	483.90	483.20
Error in lat. and dep. respectively			0.67	0.70	

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and laying the lines and corners described in the foregoing field notes of the survey of _____
ng the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor al for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

ibed and sworn to before me this _____
y of _____, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____, day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____. }

○○○○○
O SEAL O
○○○○○

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, May 7th, 1898
The foregoing field notes of the survey of *The West Boundary of Township
8th Range East of the Salt Lake Base & Meridian
Utah*.

executed by Frank E. Baxter & William P. Dugall
under his contract No. 214, dated July 21st, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and all surveys they describe, are hereby approved.

Jacob B. Bl

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

K. F. B.

FIELD NOTES

OF THE SURVEY OF THE

Sub-division Lines
of

Township No 8 North, Range No 6 East

of the Salt Lake Base and Meridian,
the State of Utah

AS SURVEYED BY

A. E. Baxter and William B. Dougall, United States Deputy Surveyors
 their ~~for~~ Contract No. 214, dated July 21, 1897
 y commenced September 14, 1897
 y completed September 21, 1897

6-161

Dist - Right 30-44-23 ✓
 Left - 32-00 ✓
 Average - 41-75 ✓

Contingent - 3-06-12 ✓

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Steppes	Chairman
James W. Nichols	Chairman
James Stark	Manager
David H. Gove	Manager
Walter W. McLaughlin	Assistan
Thomas Slater	Assistan
George W. Dougall	Flagman
Charles Lattis	Flagman

6-151

Volume

R0247

INDEX DIAGRAM.

Township _____, *Range* _____

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chainma
....., Chainma
Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey

....., Moundma
....., Moundma
Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Axman
....., Axman
Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and trul
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th
survey of

....., Flagman
Subscribed and sworn to before me this }
day of , 189 }



S. Tp. 8 N., R. 6 E.

Survey commenced September 14th 1897 and executed with two W and L. E. Gurley light mountain transits, no number, each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declinations arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct, and were approved by the Surveyor General for Utah August 2nd 1897.

We examined the adjustments of the transits and correct the level and collimation errors; thence to test the solar apparatus by comparing their indications. Resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, we proceed as follows -

At the corner of sec's. 1, 2, 35 and 36 on S by S by S. Tp 8 N R 6 E latitude $41^{\circ} 23' N$ longitude $111^{\circ} 14' W$ we set \overline{P} $41^{\circ} 23' N$ on the latitude arc $3^{\circ} 4' N$ decl. arc and at $3^{\text{h}} 00^{\text{m}}$ p.m. l.m.t. determine with the solar of one of the instruments a true meridian and mark a point thereof on a plug driven in the ground 5 chs. N of corner.

With the second instrument placed over the same initial point we set \overline{P} $41^{\circ} 23' N$ on lat. arc, $3^{\circ} 4' N$ on the decl. arc, and at $3^{\text{h}} 15^{\text{m}}$ p.m. l.m.t. determine with the solar a true meridian, and mark a point thereof on the plug already set 5 chs. N of our station. This point falls 0.2 ins. E of that of the first instrument.

At $8^{\text{h}} 15^{\text{m}}$ by our watches which are $24^{\text{m}} 56^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation with the first instrument, in accordance with the manual of instructions, and mark a point on the line thus determined, on a

Subdivision S Tp. 8 N. R. 6 E. continued

... plug driven in the ground 5 chs. N of our station
September 14 1897

September 15th 1897 at 6^h m a.m. l.m.t. we lay off
the Azimuth of Polaris $1^{\circ}39'$ to the West, and mark
the true meridian thus determined with the first
instrument by a pencil mark on the stake set
Sept. 14 on which the true meridian falls 0.4 ins
east of the mark determined by the solar of
the first instrument, and 0.2 ins east of that
of the second instrument.

At 7^h 00^m a.m. l.m.t. we set off $41^{\circ}23' N$ on the lat.
arc 250° N on the decl. arc of the first instrument,
and mark a point in the true meridian de-
termined with the solar, by a pencil mark on
the stake already set 5 chs N of our station; this
mark falls 0.5 ins east of the true meridian
established by the Polaris observations.

At 7^h 10^m a.m. l.m.t. we set off $41^{\circ}23' N$ on the lat. arc
 $2^{\circ}50'$ N on decl. arc of the second instrument
and mark a point in the true meridian
determined with the solar, by a pencil
mark on the stake already set 5 chs N of
our station; this mark falls 0.4 ins east
of the true meridian established by the
Polaris observations.

The solar apparatus by p.m. and a.m. observations
defined positions for true meridian, respectively
about $0'21'' W.$ and $0'16''$ east of the true meridian
established by the Polaris observations - with
the first instrument, and $0'11''$ West
and $0'21''$ East of the same, with the second
instrument; therefore we conclude the
adjustments of the instruments are
satisfactory.

The magnetic bearing of the true meridian
at 8^h 30^m a.m. is N. $17^{\circ}15' W$ the angle thus
determined, reduced by the table, page 100
gives the mean mag. decl. $17^{\circ}12' E$.

Civil division of Tp. 8 N. R. 6 E Continued

Preliminary to commencing the subdivision of the un-subdivided portion of this Tp. we run north on a blank line one east boundary of sec 35, at 40.00 chs. we find the $\frac{1}{4}$ sec. cor. n 1.40 chs and at 80.00 chs the cor. of secs. 25, 26, 35 and 36 N. 2.90 chs. therefore we continue our line N. and at 3 miles 652 chs find the cor. of secs. 13, 14, 23 and 24. We retrace this N and S. line, as follows From the cor. of secs. 1, 2, 35 and 36 on S. bdy. of Tp. which is a sand stone 6 x 5 x 4 ins above ground marked and witnessed as described by Surveyor General - we run North betw. secs. 35 and 26

Over gently descending brush land

- 41.40 The $\frac{1}{4}$ sec. cor. which is a grey sand stone 6x10x8 above ground marked and witnessed as described by Surveyor General -
- 87.90 The cor. of secs. 25, 26, 35 and 36 which is a sand stone 6.18 ins above ground. marked and witnessed as described by Surveyor General -

Sand, gently sloping N. E.
Soil, sand, clay, and gravel. 2nd rate
No timber

North betw. secs. 25 and 26.

Over descending land.

- 6.00 Creek 10 lks wide, 1 ft. deep, drains E. thence ascend gently.
- 11.00 Top of small spur projects E., descend.
- 14.50 Draw, drains E. ascend
- 25.00 Thence along E. slope
- 39.96 The $\frac{1}{4}$ sec. cor. which is a sand stone 6 x 10 x 4 ins above ground, marked and witnessed as described by Surveyor General.
- 60.00 Wagon road bears N. E. and S. W. also gentle descent
- 79.93 The cor. of secs. 23, 24, 25 and 26 which is a sand stone 5 x 10 x 8 ins above ground

division Tp. 8 N. R. 6 E. Continued

marked and witnessed as described by
Surveyor General.
Land gently rolling.
Soil sand clay and gravel 2nd rate.
No Timber.

North bet. secs 23 and 24
Over gently descending land.
13.00 Creek 12' wide, 8' deep, drains E. Ascend
88.00 Wagon Road bears E. and W.
41.60 The $\frac{1}{4}$ sec. cor. which is a red sandstone 5x11x6 ins
above ground, marked and witnessed as described
by Surveyor General
Thence more abrupt ascent
83.29 The cor of secs 13.14.23 and 24 which is a sand
stone 5x12x3 ins above ground, marked
and witnessed as described by
Surveyor General
Land, broken bench slopes
Soil sand, clay and gravel 2nd Rate
No Timber.

We begin at the cor of secs 13.14.23 and 24 here to
fore described
Thence we run
North bet. secs. 13 and 14.
3.00 Top of spur on E. slope 50 ft above sec. cor. descend
6.00 Draw, on E. slope 60 ft below spur ascend
11.00 Spur on E. slope 75 ft above ravine, descend
20.00 Draw on E. slope 40 ft below spur ascend
31.00 Spur projects E. 125 ft above ravine descend
33.50 Draw, drains E. 70 ft below spur ascend
33.80 (Allowing for the discrepancy found in N and S line.)
Set a gray sand stone 2.2x6x6 ins, 16 ins in
ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face
raise mound of stone. 2 ft base $\frac{1}{2}$ ft.
high W. of cor. Pits impracticable.
57.00 Top of spur, projects E. 150 ft above ravine des-
cend

Subdivision Tp 8 R. 6 E Continued

66.00

Bottom Prairie, 100 ft below spur, drains E. accud.
Set a white sand stone 14x18x16, ins; raised
ground for cor of sec 11, 12, 13 and 14 marked
with 4 notches on Sand, 1 notch on Edges,
raise mound of stone 2 ft. base 1/2 ft. high 7 ft cor
Pit impracticable

Land Mountainous

Soil sandy and gravelly loam $\frac{2}{3}$ rd and $\frac{3}{4}$ th ratio.
No timber

Mountainous land 73.88 chs.

40.00

East on a random line bet. sec 12 and 13.

Set line $\frac{1}{2}$ sec. cor.

8.00

Intersection E. bdy. of Tp. at cor of sec 7, 12, 13, and 18, established
by J. Bauman in Sept 1. 1869, which is a boulder
6x10x2 ins. above ground marshland situated as described
by surveyor general, which was marked for cor of sec
12 and 13 only. This cor is 7.65 chs. S. of cor of same
secs. as established by F. Dickert in Aug. 1870, which
is a gray sand stone 5x8x6 ins above ground, marshy
and situated as described by surveyor general, from
which an oblique all marking appearing to sec. 12 and 13.

There are none

Not on a true line bet. sec 12 and 13.

One ascending land.

40.00

Set a white sand stone 16x12x6 ins 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on top face, raise mound of
stone 2 ft. base 1/2 ft high 7 ft cor. Pit impracticable

65.00

Spur, projects S.E. 300 ft. above sec. cor. described.

68.00

Ditch drains S.E. 60 ft below, spur, accud.

8.00

The cor of sec 11, 12, 13, and 14.

Land mountainous

Soil, sandy loam and gravel, $\frac{2}{3}$ rd and $\frac{3}{4}$ th ratio
No timber

Mountainous land 8.00 chs.

3.50

North bet. sec. 11 and 12.

One ascending land.

Spur, projects E, 45 ft. above. sec. cor. described

Subdivision of T. 8 N., R. 6 E. - Continued

11.00	Bottom Prairie, denim E. 70 ft. below surface, accured.
20.00	Spur projects E. 90 ft above prairie, accured.
40.00	Set a red sand stone 12x10x6 ins. 9 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise of stone 2 ft. base 1 1/2 ft. high 1/2 cor. Pits Wagon road, base N.E. and S.W.
52.30	Bottom of dry ravine, 300 ft. below surface, denim N 70° E. accured
55.00	Set a white sand stone 14x10x6 ins 9 ins in ground for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on N. edge, raise mound of stone 2 ft. 1 1/2 ft high 1/2 cor. Pits impracticable.
	Land mountainous.
	Soil, sandy loam and gravel, 2 nd and 3 rd rates.
	No timber.
	Mountainous land \$0.00 chs.

September 15th 1897; At the cor. of secs. 1, 2, 11, and 12, at 11⁵⁵ a.m. I. m. t. we set off 54° N. on the decl. arc of one of the instruments, and observe the sun on the meridian; the resulting lat. is 41° 27' N.

Thus we run

East on a random line bet. secs. 1 and 12.

40.00 Set temp 1/4 sec. cor.

79.81 Interest E. side of Sp. 14 1/2 ft. on cor. of secs. 1, 6, 7 and 12, established by J. Bauman, in Sept. 1869, which is a boulder 8x8x4 ins above ground, marked and witnessed as described by surveyor general, which we regard for cor. of secs. 1 and 12 only. This cor. is 8.20 chs Sp. cor. of same sec., as established by F. Dierck in Aug. 1870, which is a gray sand stone 5x8x5 ins above ground, marked and witnessed as described by surveyor general, from which we ablate all markings appertaining to secs. 1 and 12.

Thus we run

S 89° 34' W. on a true line bet. secs. 1 and 12.

On accuring land.

39.90% Set a white sand stone 14x10x6 ins. 9 ins in ground for
1/4 sec. cor. marked 1/4 on N. face, raise mound of
stone 2 ft. base 1 1/2 ft. high 1/2 cor. Pits impracticable.

This cor. stands on the top of a spur, projecting S. 200 ft.
above sec. cor. descnd.

Subdivision of T. 8 N., R. 6 E. — Continued.

	Alma C Brown's cabin was S 26 30' E 2250 ch. dist.
49.60	Bottom of draw drains S 150 ft. below spur ascert.
52.00	Spur, projects S 40 ft. above ravine, ascend.
66.20	Bottom of ravine, drains S.E. 30 ft. below spur, ascend.
79.81	The cor. of secs 1, 2, 11, and 12. Land mountainous Soil, sandy loam and gravel, 2 nd and 3 rd ratio no timber Mountainous land 79.81 chs.

The attachment of the N. side of this Sp shows discrepancies beyond the limit prescribed by the Manual of Instructions, therefore we run

North on a true line bet secs 1 and 2.

On ascending land.

8.50	Spur, projects E. 60 ft. above cor., gentle descent.
18.80	Draw, drains S. 80° E. 50 ft. below spur, ascend.
35.00	Spur, projects E. 90 ft. above draw, descend.
44.00	Set a sand stone 12x10x6 ins. 8 ins in ground for 1/4 sec. cor. marshy on W. face, raised mound of stone 2 ft base 1/2 ft high 2 1/2 cor. Pits impracticable
54.00	Bottom of ravine drains N.E. 40 ft below spur ascend.
59.00	Top of ridge, main N.E. and S.W. 100 ft above ravine descend
68.00	Hagon road, also bottom of ravine, drains N.E. 50 ft. below ridge, ascend.

78.60 Intert the Second Standard Parallel North
on N. side of Sp. 110 chs. N. 89° 43' 31" of the
standard cor. of secs 35 and 36 which
is a sand stone 5x8x5 ins above
ground, marshy and witnessed as
described by surveyed general.

Set a gray sand stone 24x10x6 ins. 18 ins in
ground for closing cor. of secs 1 and 2 marshy
CC on S. with 1 groove on E and 5 grooves
on W faces, raised mound of stone 2 ft
base 1/2 ft high 3 1/2 cor. Pits impracticable.

Land mountainous

Subdivision of T. 8 N. R. 6 E. - Continued.

Soil, sandy loam and gravel ~~and~~^{and} sandstone
no timber
Mountainous land 78.60 acres.
September 15, 1897.

September 16, 1897: At the cor. of secs. 2, 3, 34 and
35 on S. edge of Spur which is a gray
sand stone 5 x 6 x 6 ins. above ground
marshed and situated as described
by surveyor general, we set off
41° 23' from the last arc, 226' from the
decl. arc, of one of the instruments,
and at 7^h a.m. a.m. Lmt. determine
a true meridian with the solaris.

Thus we run

N 00' S. W. secs. 34 and 35.

On ascending land.

- | | |
|-------|---|
| 2.00 | Top of spur, projects N.E. 85 ft. above sec. cor. discnd. |
| 15.00 | Bottom of ravine, drains N 60° E. 60 ft. below spur and |
| 20.50 | Top of spur, projects N.E. 85 ft. above ravine discnd. |
| 28.00 | Bottom of ravine, drains N 50° E. 60 ft. below spur and |
| 33.66 | Top of ridge, projects N. 70° E. and S. 70° W. 120 ft.
above ravine, discnd. |
| 44.00 | Set a gray sand stone 24 x 10 x 8 ins. 18 ins in
ground for 1/4 sec. cor. marshed 1/2 on
N. face, ravine around of stone 2 ft. thick
ft. high N. of cor. Pits impracticable. |
| 45.58 | Cross irrigation ditch 3 1/2 ins wide 1 ft deep, drains
N 60° E. |
| 47.50 | Bottom of ravine, spring, marsh 3 1/2 ins wide 3 ins.
deep, drains N 60° E. 150 ft. below spur, accnd. |
| 55.00 | Top of spur, projects N. 60° E. 90 ft. above ravine discnd. |
| 60.00 | Wagon road, bears N. 50° E. and S. 50° W. |
| 71.00 | Bottom of small ravine, drains E. 73 ft below
spur, accnd. |
| 84.00 | Set a white sand stone 24 x 12 x 10 ins. 18 ins
in ground, for cor. of secs. 26, 27, 34 and 35
marshed with 1 notch on S and 2 notches on
Edges, ravine around of stone 2 ft. base 1 1/2 ft. high N. |

Subdivision T. 8 N. R. 6 E. continued

of cor. Pits impracticable
 Land Mountainous
 Soil, Clay. Sandy loam and gravelly etc.
 2nd and 3rd rate
 No timber
 Mountainous land 80.00 acs.

- The re-tracement of E. boundary sec 80 shows a discrepancy beyond the limit prescribed by the manual of instructions therefore we run S. 89° 50' E. on a true line betw. secos. 26 and 35
 On descending land
 11.40 Wagon road bears N. and S.
 21.00 Foot of mountain slope 200 ft below sec. cor. bears S. 70° W. gentle descent.
 40.00 Set a white sand stone 30 x 16 x 10 ins. 23 ins. in
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise
 mound of stone 2 ft. base $1\frac{1}{2}$ ft high N. of cor
 Pits impracticable
 47.50 Wagon road bears N. 10° E and S. 10° W.
 48.50 Bottom of Swale, Spring branch 3 lhos wide 3 ins
 deep, drains N. 10° E 20 ft below foot of mountain
 slope
 53.00 Irrigation ditch 3 lhos wide 1 ft deep bears N
 10° E ascend
 75.00 Top of rocky spur, bears N. 20° W 100 ft high descend
 79.89 Intersect N. and S. line 2.92 chs. S. of cor.
 of secs. 25, 26, 35 and 36. Not before
 described, from which we ob-
 literate all markings appertaining
 to secs. 26 and 35
 Set a white sandstone 30 x 12 x 10 ins. 22
 ins. in ground. for closing cor. of
 secs. 26 and 35. marked C.C. on N.
 1 groove on S. and E. faces. raise
 mound of stone 2 ft base $1\frac{1}{2}$ ft high
 N. of cor. Pits impracticable -
 Land, Mountainous and beach.
 Soil, Clay, sand, and gravel.
 No Timber

47.89
32.60

Subdivision of Twp 87 N. R. 6 E. Continued

Mountainous Land 47.89 acres

11.0° 01' W. between sec. 26 and 27.

Over ascending land

3.00 Top of spur, 400 ft above sec cor. projects N. E. descent

7.00 Bottom of ravine, 50 ft below spur, drains N. E.
descend.

33.00 Top of spur, 90 ft above ravine, projects N. E.
descend

37.00 Bottom of ravine, 40 ft below spur, drains E.

Also wagon road in bottom of ravine.
ascend.

40.00 Set a white sandstone 20 x 14 x 10 ins. - 15 ins in
ground for 1/2 sec. cor. marked 1/4 on W.
face. raise mound of stone 2 ft base
1 1/2 ft high. W. D. cor. Pits impracticable

55.00 Top of rocky spur, 260 ft above ravine, projects
S. 70° E. descend.

61.00 Bottom of ravine, 60 ft below spur, drains S.
70° E. ascend.

80.00 Set a white sandstone 24 x 17 x 6 ins. - 18 ins
in ground for cor. of secs. 22, 23, 24 and
27 marked with 2 notches. Sand & C.
edges. raise mound of stone 2 ft base
1 1/2 ft high. W. D. cor. Pits impracticable

Mountainous Land.

Soil. Sandy, gravelly and stony, 2nd, 3rd
and 4th rates

No timber

Mountainous land 80.00 acres.

South 89° 50' E. on a true line bet. secs. 23
and 26

Over descending land

20.00 Spur, projects S. 70° E., 100 ft below sec cor
23.70 Mason road. bears N. and N.

40.00 Set 2 white sandstone 16 x 10 x 6 ins. - 11 ins
in ground. for 1/2 sec. cor. marked 1/4 on
W. face. raise mound of stone 2 ft base

T.P. N.R. 6.E. Continued

	1 1/2 ft high N. & cor. Pits impracticable
61.00	Top of same spur, projects N. 20° E. descend
79.8.9.	Disturbed N. and S. line 2.84 chs S. of cor. Spacs 23, 24, 25 and 26 heretofore described, from which we obliterate all markings appertaining to secs. 23 and 26.
	Set a gray Cobble rock 14x10x6 ins - 10 ins. in ground for closing cor. to secs 23 and 26 marked C.C. on W. 2 grooves on S. and 1 groove on E faces, raise mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
	This cor. is 500 ft below sec. cor. 1 mile W Land, Mountainous
	Soil, clay, sand and gravel, 2nd, 3rd, and 4th rates
	No Timber
	Mountainous land 79.89 chs.

	North 0° 01' W. bet. secs. 22 and 23.
	Over ascending land.
10.00	Spur, 100 ft high projects E. descend
39.00	Bottom of Home Canon Spring branch 4 ft wide 4 ins. deep drains N. 80° E. 400 ft below spur ascend
39.20	Wagon road, bears N. 80° E. and S. 80° W.
40.00	Set a white sandstone 18x12x8 ins - 12 ins in ground for 1/4 sec. cor. marked 1/4 on W face, raise mound of stone 2 ft base 1 1/2 ft high N. of cor.
	Pits impracticable
50.00	Top of spur, 150 ft above canon, projects E descend
65.00	Ravine, 90 ft below spur, drains S. 70° E. ascend
80.00	Set a white sandstone 37x16x15 ins. 24 ins in ground for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E edges raise mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
	This cor. stands on top of spur 150 ft above ravine, projects S. E.
	Land Mountainous

ubdivision Tp. 8.T1.R. C. Contiu

oil, Clay and gravel. 2nd and 3rd rates
No timber
Mountainous land \$0.00 shs.

- South $89^{\circ}50' E$ on a true line between secs 14 and 23
Over descending land.
- 10.60 Bottom of ravine, 150 ft below sec. cor., drains S. ascend
- 14.00 Spur, 50 ft above ravine, projects S. descend
- 40.00 Set a red sandstone 20x12x6 ins 15 ins in ground
frtly sec. cor, marked $\frac{1}{4}$ on N face raised
mound of stone 2 ft base $1\frac{1}{2}$ ft high N of cor.
This impracticable
- 41.00 Ravine, 150 ft below spur, drains S. ascend
- 42.00 Wagon road, bears N. $45^{\circ} W$. and S. $45^{\circ} E$.
- 65.00 Top of high spur, 400 ft above ravine projects S. descend.
- 79.88 Intersect N and S. line 6.08 chs. S of cor of secs.
13, 14, 23 and 24 here to be described from which
we obliterate all markings appertaining to secs.
14 and 23.
- Set a gray sandstone 18x12x6 ins. 17 ins in ground
frtly closing cor. of secs. 14 and 23 marked C.C. on W
3 grooves in S. and 1 groove on E faces. Raise mound
of stone 2 ft base $1\frac{1}{2}$ ft high N of cor. This impracticable
This cor is 250 ft below spur
- S and Mountainous
Soil, Clay and stony loam 3rd and 4th rates
No timber
Mountainous land 79.88 chs.

September 16, 1897 At cor of secs. 14-15-22 and 23 we
set N $2^{\circ}25' W$ on decl. arc of one of the
meridians and $11^{\frac{1}{2}} 55^{\prime \prime} m$ a.m. L.M.T. Observe
the sun on the meridian, the resulting
lat is $41^{\circ}25' N$.

Thence we run:

$7.0^{\circ}01' W$ bet. secs. 14 and 15

Over ascending land.

Subdivision of Tp. 8. R. 6. E. continued.

21.00	1 ravine, 75 ft below spur, drains E. ascend.
36.00	Spur, 50 ft above ravine, projects E. descend,
40.00	Set a gray sandstone 25 x 10 x 6 ins. 19 ins in ground for $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ m N face. raise mound of stone 2 ft base $\frac{1}{4}$ ft high W of cor. Pits impracticable
41.00	B. stone ravine, 100 ft below spur, drains E. ascend.
64.00	Top of ridge, 179 ft above ravine, bears E and W. descend
80.00	Set a gray sandstone 22 x 8 x 6 ins, 17 ins in ground for cor of secs 10, 11, 14 and 15, marked with 4 notches on S and 7 notches on E. edges. raise mound of stone 2 ft base $\frac{1}{4}$ ft high W of cor. Pits impracticable This cor. is 100 ft below top of spur. Land Mountainous
	Soil. Clay. sand, and gravel. 3 rd and 4 th rates. No timber
	Mountainous land 80.00 chs

	South 89° 50' E. on a random line between secs. 11 and 14
40.00	Set temp $\frac{1}{4}$ sec cor.
80.25	Intersect N and S. line, 25 lbs. S. of cor. of secs 11 12, 13 and 14. Thence westward S. 89° 59' W. on true line betw. secs 11 and 14
	Over gently descending land
13.50	Bottom of ravine, 200 ft below sec cor. drains S.E. ascend
40.17	Set a gray sandstone 20 x 6 x 6 ins 15 ins in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ m N face raise mound of stone 2 ft base $\frac{1}{4}$ ft high W of cor. Pits impracticable.
46.00	Wagon road, bears N and S.
51.00	Top of high ridge, 225 ft above ravine, bears S 70° E and N. 70° E. descend
80.25	Cor. of secs 10, 11, 14 and 15 This cor. is 200 ft below top of spur. Land mountainous Soil, gravelly. 3 rd rate No timber. Mountainous land 80.25 chs.

Subdivision Tp. S. N. R. 6 E. continued

- N. 0° 01' W. bet. secs. 10 and 11
Over descending land
- 22.87 Wagon road N.E. and S.W.
- 24.00 Bottom of canon. 400 ft below sec cor. chains
N.E. ascend
- ✓ 40.00 Set a red sandstone 24x10x6 ins. 18 ins in ground
for 1/4 sec. cor. marked 1/4 face, raise mound
of stone 2 ft base 1 1/2 ft high N. of cor.
Pits impracticable
- 71.00 Spur, 285 ft above canon, projects E. descend
- 80.00 Set a gray sandstone 14x10x6 ins 10 ins in ground
for cor of secs. 2, 3, 10 and 11. marked with 5
notches on S, 2 notches on E. edges. raise
mound of stone 2 ft base 1 1/2 ft high N. of cor.
Pits impracticable
- Land Mountainous
Soil, clay, sand, and gravel $\frac{2}{3}$ $\frac{1}{3}$
No timber
Mountainous land \$0.00 chs.
- N. 89° 59' E. on a random line bet. secs. 2 and 11
- 40.00 Set tank 1/4 sec. cor.
- 79.87 Intasect N and S. line 23 lbs. S. of cor of secs. 1,
2, 11 and 14.
- Then we run
S. 89° 49' W on true line bet. secs. 2 and 11
Over gently descending land
- 11.70 Ravine, 68 ft below sec. cor. chains S. 20° E. ascend
- 12.00 Wagon road. bears N. W. and S. E.
- 36.00 Spur. 185 ft above ravine, projects S. descend
- 39.93 1/4, Set gray sandstone 24x14x10 ins - 18 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face. raise mound
of stone 2 ft base 1 1/2 ft high N. of cor.
Pits impracticable
- 48.00 Bottom of draw, 73 ft below spur, chains N. 88° E. ascend
- 67.00 Spur, 105 ft above draw, projects S. descend
- 71.00 Bottom of draw, 80 ft below spur chains S. Ascend
- 79.87 Cor of secs. 2, 3, 10 and 11,
This cor is 125 ft above draw.
- Land Mountainous

Subdivision of Tp 8 N. R. 6 E. Continued

Soil, clay and sandy loam 2nd and 3rd rates.

No. Timber

Mountainous land 79.87 chs.

N 0° 01' W. on true line bet secs 2 and 3.

Over acceding land -

30.00 Top of ridge 125 ft above sea cov. bears N. 5° E. and
S 5° W. descend

40.00 Set a gray sandstone 14 x 6 x 6 ins - 10 ins in ground
for 1/4 sec. cov. marked by on W face. raise mound
of stone 2 ft base 1/2 ft high N 7° cov. Pits impracticable.

47.00 Wagon road bears N. 35° W and S. 35° E.

58.00 Ravine 120 ft below ridge, drains N E ascend

65.00 Spur, 50 ft above ravine, projects S 80° E descend

70.00 Bottom 100 ft, 72 ft below spur, drains E ascend

79.00 Intercept the 2nd Standard Parallel N. 2.28 chs
S 83° W. of the standard cov of secs 34 and 35, which
is a sand stone 5 x 15 x 9 ins. Above ground
marked and witnessed as described by
Surveyor General.

Set a white sandstone 22 x 8 x 6 ins - 17 ins in
ground for closing cov. of secs 2 and 3 marked
C.O. on S. 2 grooves out and 4 grooves on W faces
raise mound of stone 2 ft base 1/2 ft high
S 8 cov. Pits impracticable -

Land mountainous

Soil, sand and rich loam 2nd rates.

No Timber

Mountainous land. 79.00 chs

September 16th 1897

September 17th 1897 at cov of secs 33 and 34 in
S. body of Tp established by us Sept 13 we
set off 41° 23' on lat. arc 2° 04' N. on decl.
arc of one of the instruments and at 7^h 08^m a.
m. L.M.T. determine a true meridian
with the solas.

Thence we run

Subdivision Twp N.R. 6.E. Continued

	N. 0° 02' W. bet secs. 33 and 34
	Over descending land
20.50	Bottom of ravine, 350 ft below sec. cor., spring branch 3 lks wide 3 ins deep drains N 70° E. Ascend
21.00	Wagon road bears N 20° E and S. 70° W.
39.00	Top of spur, 305 ft above ravine, projects N 70° E. descend
40.00	Set a gray sandstone 12 x 8 x 6 ins. 8 ins in ground for 1/4 sec. cor. marked 1/4 m. N. face, raise mound of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable.
50.00	Bottom of dry ravine, 285 ft below spur, drains S.E. Ascend
70.00	Top of spur, 200 ft above ravine, projects S. E. descend
75.00	Small ravine, 70 ft below spur, drains S. 60° E ascend
80.00	Set gray sandstone 24 x 14 x 12 ins - 18 ins in ground for cor of secs. 27, 28, 33 and 34 marked with 1 notch on S and 13 notches on E edges raise mound of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable.
	Land, Mountainous
	Soil, sandy, gravelly and rocky 2 nd 3 rd and 4 th rates No timber
	Mountainous Land 80.00 chs.

	S. 89° 50' S. on random line bet secs. 27 and 34
	Over descending land
40.00	Set temp 1/4 sec cor
79.89	Intersect N. and S. line 4 lks N of cor of secs. 26, 27, 34 and 35
	Hence we run
	S. 89° 48' W. on true line bet secs. 27 and 34.
	Over ascending land
30.00	Spur, 200 ft above sec. cor., projects S. descend
39.94 1/4	Set a gray sandstone 18 x 12 x 6 ins - 12 ins in ground for 1/4 sec. cor. marked 1/4 m. N face raise mound of stone 2 ft base 1 1/2 ft high N of cor Pits impracticable
44.00	Bottom of ravine, 150 ft below spur, drains S.

T.P. 871. R. 6 E. Continued

E ascend -

68.00 Thence gentle ascent along S. E slope

79.89 Co. of secos. 27, 28, 33 and 34.

This cor. is 350 ft above ravine.

Sand Mountainous

Soil. Clay, sand and gravel. $\frac{2}{3}$ $\frac{3}{4}$ and $\frac{1}{4}$ rates

No timber

Mountainous land 79.89 chs.

N. 0° 02' W. bet secos. 27 and 28.

Over ascending land

16.00 Top of spur, 150 ft above sec. cor., projects N. 60° E
descend

29.40 Wagon road N.W. and S.E.

36.00 Bottom of ravine, 93 ft below spur, drains E ascend

40.00 Set a gray sandstone 18 x 12 x 8 ins - 12 ins in ground
for 1/4 sec. cor. marked 1/4 on N face, raise
mound of stone 2 ft base 1 1/2 ft high N of cor
Pits impracticable

60.00 Spur, 135 ft above ravine, projects E descend.

80.00 Set a gray sandstone 20 x 10 x 8 ins - 15 ins in ground
for cor. of secos. 21, 22, 27 and 28 marked
with 4 notches on S. and 3 notches on E. edges
raise mound of stone 2 ft base 1 1/2 ft high N
of cor. Pits impracticable

Sand Mountainous

Soil, clay, sand and gravelly $\frac{2}{3}$ $\frac{3}{4}$ and $\frac{1}{4}$ rates

No timber

Mountainous land 80.00 chs.

South 89° 48' E on a random line bet sec. 22 and
27

40.00 Set temp. 1/4 sec cor.

79.93 Intersect N. and S. line 9 links N of cor of
secos 22, 23, 26 and 27

Thence we run

N. 89° 44' W on true line betweencos 22 and 27

Over ascending land

15.00 Top of spur, 250 ft above sec cor, projects N. 60°

Tp. 8 N. R. 6 E. continued

E. descend

39.96 Set a gray sand stone 22 x 16 x 8 ins 17 ins in ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ m N. face raise mound of stone 2 ft base $1\frac{1}{2}$ ft high W. of cor. pits impracticable

71.00 Ravine. 100 ft below spur. drains N. N. 20° E.

79.93 The cor of sec. 21, 22, 27 and 28.

Land. Mountainous

Soil. Clay and sand 2nd rate

No timber

Mountainous land 79.93 chs.

N. 0° 07' W. betw secos. 21 and 22

Over descending land

20.00 Bottom of "Home Cañon" spring branch 4 blks. wide 3 ins deep, drain. S. 88° E. 400 ft below sec cor.

20.20 Wagon road bears E. and W.
thence ascend 75 ft to

25.00 Foot of broken cliffs bears E. and W.

30.00 Top of cliffs 200 ft above foot -

40.00 Set a gray sandstone 20 x 8 x 6 ins - 15 ins in ground
for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ m W. face. raise
mound of stone 2 ft base $1\frac{1}{2}$ ft high W. of cor
Pits impracticable

45.00 Top of spur, 100 ft above cliffs projects E. descend

70.00 Draw. 50 ft below spur. drains E. ascend

80.00 Set a gray sandstone 24 x 8 x 6 ins, 18 ins in
ground for cor of secos. 15, 16, 21, and 22, marked
S. 8. N. on N. E. E.

R. 6 E. on S. E. faces with 3 notches

S. and E. edges. raised mound of
stone 2 ft base $1\frac{1}{2}$ ft high W. of cor. pits impracticable
This cor is 500 ft above "Home Cañon"

Land. Mountainous

Soil. Sandy and gravelly 3rd rate

No timber

Mountainous land 80.00 chs

Subdivision of Tp. 8 N. R. 6 E. Continued

- S. $89^{\circ}44' E$ on a random line bet secos 15 and 22
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 80.13 Intercept N. and S. line 14 ft. S. of cor of secos
 14, 15, 21 and 22.
 Thence we run
 N. $89^{\circ}49' W$. on a true line bet secos 15 and 22.
 Over descending land
 16.00 Bottom of ravine, 90 ft below sec. cor., drains S. ascend
 40.06 $\frac{1}{4}$ m. Set a gray sandstone 18x8x6 ins - 12 ins. in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. Raise
 mound of stone 2 ft base $1\frac{1}{4}$ ft high N. of cor
 Pits impracticable
 44.00 Top of spur, 100 ft above ravine, projects S. $60^{\circ} E$.
 Thence continue ascent -
 80.13 The cor. of secos 15, 16, 21 and 22.
 This cor. is 250 ft above ravine,
 Land mountainous
 Soil, clay and sandy loam $\frac{2}{3}$ slate
 No timber
 Mountainous land 80.13 chs.
 September 17, 1891: At this cor. we set off $1^{\circ}57' W$
 on the decl. arc of one of the instruments
 and at $11^h 54^m$ a.m. l.m.t. observe the
 sun on the meridian the resulting
 lat. is $41^{\circ}25' W$.

N. $0^{\circ}07' W$. fit secos. 15 and 16.

Over ascending land

- 20.00 Top of ridge, 150 ft above sec. cor., bears $720^{\circ} E$
 S. $20^{\circ} W$ descend
 40.00 Set a gray sandstone 16x10x8 ins - 11 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise
 mound of stone 2 ft base $1\frac{1}{4}$ ft high N. of cor
 Pits impracticable
 46.00 Bottom of ravine, 200 ft below ridge, drains
 S. $90^{\circ} E$. ascend.
 70.00 Top of ridge, 250 ft above ravine, bears E. and W.
 80.00 Set a gray sandstone 17x12x6 ins 17 ins in ground for
 cor of secos. 9, 10, 15 and 16. marked 4 notches
 on S. and 3 notches on E. edges. Raise

Division. Tp. 8 N. R. 6 E. continued

mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor. Pits impracticable
Land mountainous
Soil. Clay and sandy loam. 2nd rate
No timber
Mountainous land 80.00 chs.

J. 89° 49' E on a random line between secs. 10 and 15
40.00 Set temp $\frac{1}{4}$ sec. cor.
80.04 Intersect N. and S. line 9 lbs. S. of cor of secs.
sp. 11, 14, and 15

Thence we went

N. 89° 53' W. on true line betw secs. 10 and 15
Over descending land

6.50 Bottom of ravine, 75 ft below sec. cor. drains N. descend.
21.00 Top of draw, 185 ft above ravine, projects N. descend.
40.02 Set a red sandstone 20 x 11 x 9 ins. 15 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m. N. face raise
mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor.
Pits impracticable

42.00 Bottom of ravine, 300 ft below draw, drains N. 45° E
ascend.

53.00 Top of ridge, 400 ft above ravine, bears N. 60° E.
S. 60° W. descend.

66.50 Draw. 175 ft below ridge, drains N. 50° E. ascend
80.04 The cor. of secs. 9, 10, 15 and 16.

This cor. is 200 ft above draw

Land mountainous

Soil. clay and gravelly 3rd rate
No timber

Mountainous land 80.04 chs.

N. 0° 07' W. bet. sec. 9 and 10.
Over descending land

23.40 Wagon road bears S. W. and N. E.

24.60 Bottom of ravine, 400 ft below sec. cor., drains
N. 45° E. ascend

40.00 Set a red sandstone 16 x 12 x 10 ins. 11 ins. in
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m. N. face
raise mound of stone 2 ft base $\frac{1}{4}$ ft high

Line division of T.P. 8 N. R. 6 E. Continued.

	W. of cor. Pits impracticable
50.00	Spur, 270 ft above ravine, projects S. 45° E. Thence ascend along E. slope
80.00	Set a gray sandstone 16x16x6 ins - 10 ins in ground for cor. of secs. 3, 4, 9 and 10, marked 5 notches on S. and 3 notches on E. edges raise mound of stone 2 ft base 1/4 ft high W. of cor. Pits impracticable Land mountainous Soil, sandy, clay and gravelly 2 nd and 3 rd rates No timber Mountainous land 80.00 chs.

	S. 89° 53' E. on a random line bet. secs 3 and 10
40.00	Set temp 1/4 sec. cor.
80.28	Intersect N. and S. line 2400 ft. N. of cor. of secs. 2, 3, 10 and 11. Thence we run:
	S. 89° 43' W. on a true line bet. secs 3 and 10 Over ascending land
9.00	Spur, 125 ft above sec. cor. projects S. descend.
33.00	Bottom of ravine, 100 ft below spur, turns S. descend.
40.14	Set a gray sandstone 24x6x6 ins - 18 ins in ground for 1/4 sec cor. marked 1/4 on N face raise mound of stone 2 ft base 1/4 ft high N. of cor. P. Pits impracticable
56.00	Tops of spur, 90 ft above ravine, projects S. descend
72.00	Bottom of ravine, 80 ft below spur, turns S. descend
80.28	The cor. of secs. 3, 4, 9 and 10 This cor. is 100 ft above ravine.
	Land mountainous Soil, sand, clay and gravel 2 nd and 3 rd rates. No timber Mountainous land 80.28 chs.

	S. 0° 01' W. on a true bet. secs. 3 and 4
	Over ascending land
400	Top ridge, 100 ft above sec. cor. bears N. 50° E. and S. 50° W. descend

Subdivision. Tp. 8, N.R. 6.E continued

- 19.00 Draw, 185 ft below ridge drains N. 50° E. ascend
 26.00 Spur, 90 ft above ravine, projects N 80° E. descend.
 40.00 Set a gray sand stone 20x12x8 ins. 15 ins in ground, for
 $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on W face raise mound of stone
 2 ft base $\frac{1}{2}$ ft high N.D. cor pits impracticable
 52.00 Thence along W. slope, 100 ft. below spur.
 53.30 wagon road bears E. and W.
 - 77.10 Intersect ^{2nd} Standard Parallel N. or N.bdy of
 Tp. 3.85 cho. N $89^{\circ} 21'$ W. of the standard cor.
 of secs. 33 and 34 which is a sandstone
 25x12x5 ins above ground marked and
 witnessed a described by
 Surveyor General
 Set a gray sand stone 24x13x6 ins - 18 ins in
 ground for closing cor. of secs. 3 and 4.
 Marked C.C. on D. 3 globes on E. and W.
 faces, raise mound of stone 2 ft base $\frac{1}{2}$ ft high
 S. of cor. Pits impracticable.
 Sand mountainous -
 Soil sandy loam 2nd rates
 No timber
 Mountainous land 77.10 cho.

September 17th 1897.

- September 18th 1897. At cor. of secs. 32 and 33 on
 N bdy of Tp. established by us Sept. 13.
 we left off 41° 23' N. relat. arc $1^{\circ} 45' N$
 on decl. arc done of the instruments
 and at 7^h 5^m 2^s A.M. L.M.T. determine
 a true meridian with the solar.
 Hence we run
 $40^{\circ} 02' W.$ bet. secs. 32 and 33.
 Over ascending land
 27.00 Top of ridge, 350 ft. above sec. cor. bears E and W. descend.
 39.17 (Allowing for the shifting of the N. bdy of Tp.)
 Set a gray sand stone 20x12x8 ins. 15 ins in ground
 for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on W. face raise mound
 of stone 2 ft base $\frac{1}{2}$ ft high N.D. cor. pits impracticable
 43.00 Bottom of ravine, 190 ft below spur, drains S. 80° E.

modivision Tp. 8, N. R. 6, E. Continued

second

52.00 Top of spur, 100 ft above ravine projects S.E. second

79.17 Set a gray sand stone 24x10x8 ins. 18 ins in ground for

Cor. of secs. 28, 29, 32 and 33 marked 1

notch on N. end 4 notches on E. edges

raise round of stone 7 ft base 1 1/4 ft high

W.D. cor. Pits impracticable

Sand Mountainous

Soil, sandy gravelly and stony 3rd and 4th rates

No timber

Mountainous land 79.17 Chs.

East on a random line bet. secs. 28 and 33.

40.00 Set terrace 1 1/4 sec. cor.

79.58 Intercept N. and S. line also N. D. cor. of secs.
27, 28, 33 and 34.

Hence we run

N. 89°58' W. on true line bet. secs 28 and 33-

Over descending land.

1.50 Draw, 534 ft below cor. drains N.E. second

9.00 Top of spur, 200 ft above draw, projects S. descend

18.00 Bottom of ravine, 250 ft below spur, drains S. second

38.00 Spur, 108 ft. above ravine, projects S. descend

39.79 Set a gray sand stone 28x8x6 ins 21 ins in ground

1/4 sec. cor. marked 1/4 on N. face raise

round of stone 7 ft base 1 1/4 ft high

W.D. cor. Pits impracticable -

42.00 Draw, 0.50 ft below spur, drains S. second

71.50 Top of spur, 250 ft above draw, projects S. descend

79.58 The cor. of secs. 28, 29, 32 and 33

This cor. is 300 ft above spur.

Sand Mountainous

Soil, sandy, gravelly and stony 3rd and 4th rates.

No timber

Mountainous land 79.58 Chs.

110°00' W. bet. secs 28 and 29.

Over ascending land

15.00 Top of ridge, also wagon road, 350 ft.

Division Tp 8 N. R. 6. E continued

	above sec. cor. bears E and W. descend
27.00	Bottom of ravine, 150 ft below ridge drains N. 45° E. ascend
35.00	Top of spur, 125 ft above ravine, projects N. 40° E. descend
40.00	Set a gray sandstone 28 x 8 x 6 ins - 21 ins in ground for 1/4 sec. cor. marked 1/4 on W. face raise mound of stone 7 ft base 1 1/2 ft high W. S. cor. Pits impracticable
57.00	Bottom of ravine, 80 ft below spur, drains N. 60° E. Ascend
75.00	Top of ridge, 200 ft. above ravine bears N. 80° E. S. 80° W. descend
80.00	Set a gray sandstone 16 x 8 x 6 ins - 11 ins in ground. for cor. of secs. 20, 21, 28 and 29, marked 2 notches on S. and 4 notches on E. edges, raise mound of stone 7 ft base 1 1/2 ft high W. S. cor Pits impracticable
	Land Mountainous
	Soil. Sandy, clay and stony 3 rd and 4 th rates No timber
	Mountainous land 80.00 Chs.

	S. 89° 58' E. on a random line bet. secs. 21 and 28
40.00	Set temp 1/4 sec. cor.
79.74	Intersect N. and S. line 21, 28 N. S. cor. of secs. 21, 22, 27 and 28 Thence we run -
	S. 89° 49' W. on a true line bet. secs. 21 and 28 Over descending land
17.00	Bottom of ravine, 300 ft below sec. cor. drains N. E. ascend
39.87	Set a gray sandstone 16 x 12 x 6 ins in ground for 1/4 sec. cor. marked 1/4 on W. face raise mound of stone 7 ft base 1 1/2 ft high W. S. cor. Pits impracticable
50.00	Spur. 400 ft above ravine. projects N. 80° E. descend
79.74	The cor. of secs. 20, 21, 28 and 29. Land mountainous

Sun

Tp. 8. N.R. 6.C. Continued

Soil. Clay, gravel and stones 4th rate
No timber
Mountainous land 79.74 chs.

No 02° W. bet. secs. 20 and 21

Over descending land

35.00 Bottom of "Home Canon" also spring branch 4 lbs inc.
5 in deep. 450 ft below sec. cor. drains
North 80° E. ascend

3540 Wagon road bears E and W-

40.00 Set a gray sandstone 20x8x6 ins- 15 in in ground
for 1/4 sec cor marked 1/4 on W face raise
mound of stone 2 ft face 1 1/2 ft high W. of cor
Pits impracticable

77.00 Top spur, 375 ft above "Home Canon", projects S. 80° E.
descend

80.00 Set a gray sandstone 14x10x8 ins- 10 ins in ground
for cor of secs. 16, 17, 20 and 21. marked
with 3 notches on S and 4 notches on E. edges
raise mound of stone 2 ft face 1 1/2 ft high
W. of cor. Pits impracticable

Land, mountainous

Soil, clay, gravel and rocky 3rd and 4th rates.
No timber

Mountainous land 80.00 chs.

The sky is overcast and solar observations
are impossible

S. 89° 49' E on random line bet. secs. 16 and 21

40.00 Set temp 1/4 sec cor.

79.74 Intersect N. and S. line 14 lbs S. of cor. of secs.
15, 16, 21 and 22.

Hence we run

N. 89° 55' W. on true line bet. secs 16 and 21

7.00 Spur, 85 ft above sec. cor., projects S. descend

18.00 Bottom of ravine, 150 ft below spur; drains S. ascend

25.00 Spur, 125 ft above ravine, projects S. descend

39.87 Set a gray sandstone 14x10x6 ins- 9 ins in ground
for 1/4 sec. cor. marked 1/4 on W face

Subdivision Tp. S.T. R. 6.E. Continued

	raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impracticable.
44.90	Ravine, 200 ft below spur, drains S. ascend.
50.00	Wagon road bears N. and S.
62.00	Spur, 285 ft above ravine, projects S. 25° E. descend
71.00	Bottom of ravine, 100 ft below spur, drains S. E. ascend
79.74	The cor. of secs 16, 17, 20 and 21 Land mountainous Soil sand and clay 2 nd rate No timber Mountainous 79.74 obs.
	$N. 0^{\circ} 02' W$ bet secs 16 and 17 Over descending land
7.00	Bottom of ravine, 180 ft below sec. cor. drains S. E. ascend.
15.00	Spur, 200 ft above ravine, projects S. E. descend.
29.00	Draw, 50 ft below spur, drains S. E. ascend.
40.00	Set gray sandstone 17x10x8 ins - 12 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, raise mound of stone 2 ft base $1\frac{1}{2}$ ft high W. of cor. Pits impracticable.
45.00	Top of ridge, 150 ft above draw, bears E. and W. descend
63.00	Bottom of ravine, 280 ft below ridge, drains N. 80° E. ascend
75.40	Top of ridge, 300 ft above ravine, bears. N. 80° E. S. 80° W. descend
80.00	Set gray sandstone "14x8x6 ins - 9 ins in ground for cor. of secs. 8, 9, 16 and 17, marked 4 notches on S. and E. edges. raise mound of stone 2 ft base $1\frac{1}{2}$ ft high W. of cor. Pits impracticable.
	Land. Mountainous Soil. sandy, clayey and gravel 2 nd and 3 rd rates No timber Mountainous land 80.00 obs.

subdivision Tp 8. N. R. 6. E. Continued

	S. $89^{\circ} 55' E.$ on a random line bet secs. 9 and 16
40.00	Set temp. $\frac{1}{4}$ sec cor
79.64	Intersect N. and S. line 3 lks S. of cor of secs. 9, 10, 15 and 16. Thence we run.
	N. $89^{\circ} 56' W.$ on a true line bet secs. 9 and 16. Over ascending land.
10.00	Top of ridge, 125 ft above sec. cor., bears N. W. and S. E. descend -
32.00	Bottom of ravine, 275 ft below ridge, drains S. $20^{\circ} E.$ ascend
39.10	Wagon road, bears N. and S.
39.87	Set a gray sandstone 14x10x8 ins - 9 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. This impracticable
70.00	Top of ridge, 325 ft above ravine, bears N. E. and S. W. descend
79.64	The cor of secs. 8, 9, 16 and 17. Land mountainous Soil, sand, clay, and gravel 2 nd and 3 rd rates No timber Mountainous land 79.64 chs.

	N. $02' W.$ bet secs. 8 and 9.
	Over descending land.
14.00	Bottom of ravine, 225 ft below sec cor. drains N. $80^{\circ} E.$ ascend.
14.20	Wagon road, parallel to ravine.
34.00	Top of spur, 120 ft above ravine, projects S. $50^{\circ} E.$ descend
40.00	Set a gray sandstone 24x11x7 ins - 18 ins in ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. cor. This impracticable
41.00	Bottom of draw, 108 ft below spur, drains S. $50^{\circ} E.$ ascend
70.00	Top of ridge, 270 ft above draw, bears E. and W. descend -

Subdivision Tp. 8 N. R. 6 E. Continued

- 80.00 Set a gray sandstone 20x9x6 ins. - 15 ins. in ground
 for cor. secos. 4, 5, 8 and 9 marked 5 notches
 on S. and 4 notches on E. edges. raise
 mound of stone 2 ft base $\frac{1}{4}$ ft high N.
 of cor. Pits impracticable
 Land, mountainous
 Soil, clay, gravelly and stony 3rd and 4th
 rates
 No timber.
 Mountainous land 80.00 obs.

1. $89^{\circ}56' E$ on a random line bet. secos. 4 and 9.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 79.87 Intersect N and S. line 21 lbs. S. of cor of
 secos. 3, 4, 9 and 10
 Thence we run
 S. $89^{\circ}55' W$. on a true line bet. secos. 4 and 9.
 Over ascending land.
 7.00 Top of ridge, 100 ft above sec. cor., bears N.E. and S.W.
 descend.
 20.00 Bottom of ravine, 150 ft below ridge, drains
 N. $50^{\circ} E$. ascend.
 25.00 Top of spur, 200 ft above ravine, projects N. descend
 34.00 Bottom of ravine, 75 ft below spur. drains N. $50^{\circ} E$. accum
 39.93 $\frac{1}{4}$ Set a gray sandstone 20x9x5 ins. 15 ins. in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise
 mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor.
 Pits impracticable
 - 79.87 The cor. of secos. 4, 5, 8 and 9
 This cor. is 150 ft above ravine.
 Land mountainous
 Soil, sandy. 2nd rate
 No timber.
 Mountainous land 79.87 obs.

- N $50^{\circ}02' W$. on true line bet. secos. 4 and 5
 Over descending land
 16.25 Wagon road bears N. $50^{\circ} E$. and S. $50^{\circ} W$.
 23.00 Bottom of ravine, 75 ft below sec. cor. drains

Subdivision of Tp 8. N. R. 6. E. continued

N. 120° E. ascend.

30.00 Spur, 50 ft above ravine, projects E. descend.

40.00 Set a gray sandstone 16x10x6 ins 10 ins in ground
on $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m. N. side mound
of stone 2 ft base 1 ft high 4 ins. Pits impracticable

48.00 Bottom of ravine, 270 ft below spur, drains
E. ascend

56.00 Top of spur, 100 ft above ravine, projects E. descend.

67.00 Bottom of ravine, 150 ft below spur, drains
N. 105° W. ascend

78.00 Intercept 2nd Standard Parallel N. m. N.
bdy. of Tp. 4.00 obs. N $89^{\circ}33'15''$ E.
Standard cor. of secs 32 and 33
which is a sandstone 5x10x3 ins
above ground marked and witnessed
as described by Surveyor General.

Set a red sandstone 24x15x6 ins 18 ins in
ground for closing cor. of secs. 4 and 5
marked A.C. on S. 4 grooves on E
and 2 grooves on W. faces raise
mound of stone 2 ft base 1 $\frac{1}{2}$ ft high
S. J cor. Pits impracticable

Land, mountainous

Soil, sandy, gravelly and stony 3rd
and 4th rates

No timber

Mountainous land 78.00 obs.

September 18. 1897.

September 20th 1897. At cor. of secs. 31 and
32. on S. bdy of Tp. established by us
Sept. 13th. We set off $41^{\circ}2'3''$ E. on lat.
arc. $0^{\circ}54'N$ on decl. arc of one of the
instruments and at $72^{\circ}50'3''$ a.m. l.m.t.
determine a true meridian with the solar.

Thence we run

N. $0^{\circ}03'W$ bet. secs. 31 and 32

Over descending land through scattering pine timber

200 Bottom of ravine, 150 ft. below sec. cor. opening

Subdivision T.P. 8 N. R. 6 E. Continued

branch 6 ft. wide 7 ins deep. drains E
ascend

6.80 Wagon road, bears E. and W.

98.38 (allowing for the nothing of the D.bdy. of T.P.)
Set a gray sandstone 30x8x6 ins 24 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise
mound of stone 2 ft base $\frac{1}{2}$ ft high N.D. cor.
Pits impracticable

51.00 Top of ridge, 380 ft above ravine, bears E. and W. descend

65.00 Bottom of ravine, 150 ft. below ridge, drains S. 60° E. ascend

- 78.33 Set a gray sandstone 20x12x8 ins - 15 ins in ground
for cor of secs. 29.30.31 and 32 marked
1 notch on S. and 5 notches on E. edges
raise mound of stone 2 ft base $\frac{1}{2}$ ft high
W.D.J.cor. Pits impracticable

Sand mountainous

Soil, sandy, gravelly and stony 3rd and 4th rates

Scattering pine timber 2.00 chs.

Mountainous land 78.33 chs.

East on a random line bet. secs. 29 and 32.

40.00 Set temps $\frac{1}{4}$ sec. cor.

79.80 Intersect N. and S. line 3 ft N. of cor. of secs.
28, 29, 32 and 33

Hence we run

N. 89° 59' W. on a true line bet. secs. 29 and 32.

Over descending land

18.00 Bottom of ravine, 150 ft below cor. drains S. ascend

39.90 Set a gray sandstone 16x10x6 ins - 10 ins in ground

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
raise mound of stone 2 ft base $\frac{1}{2}$ ft high
N. of cor. Pits impracticable

54.00 Top of spur, 250 ft above ravine, projects S.

Hence gentle ascent along S. slope.

- 79.80 The cor of secs. 29, 30, 31 and 32.

Sand mountainous

Soil sandy and gravelly 2nd and 3rd rates

No timber

Mountainous land 79.80 chs.

Subdivision Tp 8. N. R. 6.E. continued

- .0° 0' 3' W bet. secs. 29 and 30.
Over ascending land.
- 6.00 Top of ridge, 100 ft above sec. cor., also wagon road, bears N. 60° E. and S. 60° W. descend.
- 19.00 Ravine, 105 ft below ridge, drains N. E. ascend.
- 40.00 Set a gray sandstone 16x10x8 ins. - 10 ins in ground for 1/4 sec. cor. marked 1/4 on N face raised mound of stone 2 ft base 1 1/2 ft high N. W. cor. Pits impracticable
- 43.00 Top of spur, 80 ft above ravine, projects N. E. descend
- 55.00 Bottom of ravine, 125 ft below spur, drains N. E. ascend
- 67.00 Top of spur, 180 ft above ravine, projects N. E. descend
- 75.00 Bottom of ravine, 100 ft below spur, ascend
- 80.00 Set a gray sandstone 16x10x6 ins. - 10 ins in ground for cor. of secs. 19, 20, 29 and 30 marked 2 notches on S. and 5 notches on E. edges raised mound of stone 2 ft base 1 1/2 ft high N. W. cor. Pits impracticable
- Land mountainous
Soil, Sandy and clay ^{2nd} rate
Geo timber
Mountainous land \$0.00 Chs.
-

- S. 89° 59' E on a random line bet. secs. 20 and 29
- 40.00 Set temp 1/4 sec cor.
- 80.00 Intersect N and S. line 3 lbs S. of cor. of secs. 20, 21, 28 and 29.
Hence we run
West on a true line bet. secs. 20 and 29.
Over descending land.
- 20.00 Bottom of ravine, 90 ft below sec. cor. drains N. E. ascend
- 40.00 Set a gray sandstone 15x10x6 ins. - 10 ins in ground for 1/4 sec. cor. marked 1/4 on N face raised mound of stone 2 ft base 1 1/2 ft high N. W. cor. Pits impracticable
This cor. is located top of spur 100 ft above ravine, drains N 10° E descend -
- 59.60 Bottom of ravine, 200 ft. below spur, drains

Subdivision Tp. 8. N. R. 6. E. Continued

	H. E. ascend
68.00	Top of spur, 250 ft above ravine, projects N.E. descend
76.00	Bottom of ravine, 90 ft below spur, drains N.E.
- 80.00	The cor. of secs. 19, 20, 29 and 30 This cor. is 100 ft above ravine Land mountainous Soil. Clay and stony 3 rd and 4 th rates No timber Mountainous land \$0.00 chs.
	N. 0° 03' W. bet secs. 19 and 20 Over descending land.
13.00	Top of spur, 100 ft above sec. cor., projects N.E. descend
26.00	Bottom of "Home Cañon", 400 ft below spur, spring Branch 5 lks. wide 1 ft deep. drains N. 50° E. ascend
27.00	Wagon road parallel to cañon.
39.00	Top of spur, 300 ft above cañon, projects S.E. descend
40.00	Set a gray sandstone 24x14x8 ins-18 ins in ground for 1/4 sec. cor. marked 1/4 on W. face. raise mound of stone 2 ft base 1 1/2 ft high W. of cor. Pits impracticable -
50.00	Bottom of ravine, 200 ft below spur, drains S. 55° E. ascend
68.00	Top of ridge, 300 ft above ravine, bears N. 5° E. S. 5° W. descend
- 80.00	Set a gray sandstone 20x11x7 ins-15 ins in ground for cor of secs. 17, 18, 19 and 20. marked 3 notches on S. and 5 notches on E. edges raise mound of stone 2 ft base 1 1/2 ft high W. of cor. Pits impracticable Land mountainous Soil gravelly and stony 4 th rate No timber Mountainous land \$0.00 chs.
	East on a random line bet secs. 17 and 20
40.00	Set temp 1/4 sec. cor.

T.P. 8.N.R. 6.E. Continued

79.75 Intercept N and S. line 28.66. Wt. 8 cor. 8. secs.
16, 17, 20 and 21. 0 0

Thence we run

N. $89^{\circ} 48' W.$ on a true line bet. secs. 17 and 20.

Over ascending land -

5.00 Top of spur, 100 ft above sec. cor. projects S.E. descend.

15.00 Bottom of draw, 80 ft below spur, drains S.E. ascend.

39.87 $\frac{1}{2}$ Set a gray sandstone 15x13x7 ins. 10 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m N face. raise
mound of stone 2 ft base $1\frac{1}{2}$ ft high N of
cor. Pits impracticable -

50.00 Spur, 200 ft above ravine, projects S. descend.

60.00 Bottom of ravine, 75 ft below spur drains
S. ascend

77.50 Top of ridge, 105 ft above ravine, bears $7.5^{\circ} E.$ $5.5^{\circ} W.$
descend

79.75 The cor. of secs. 17, 18, 19 and 20

Land mountainous

Soil. Sand and clay 3rd rate
No timber

Mountainous land 79.75 Chs.

N. $0^{\circ} 03' W$ bet. secs. 17 and 18

Over descending land

10.00 Bottom of ravine, 100 ft below sec. cor. drains
N. E. ascend

40.00 Set a gray sandstone 15x9x7 ins. 10 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face
raise mound of stone 2 ft base $1\frac{1}{2}$ ft high
W. of cor. Pits impracticable -
This cor. is located on ridge, 200 ft
above ravine, bears E. and W. descend

74.60 Bottom of ravine, 350 ft below ridge,
drains E. wagon road in bottom
of ravine, ascend.

80.00 Set a red sandstone 18x11x7 ins. 12 ins. in
ground for cor. of secs. 7, 8, 17, and 18
marked 4 notches on N. and 5 notches
on E. edges. raise mound of stone
2 ft base $1\frac{1}{2}$ ft high N. of cor.

Subdivision Tp. 8 N. R. 6 E. continued

Pits impracticable

Sand mountainous

Soil, clay and sand 2nd rate

No timber

Mountainous land 80.00 chs

September 20; At this cor. we set off $0^{\circ}47'7''$
on decl. arc. of one of the instruments and
at $11^{\text{th}} 53^{\text{m}}$ a.m. P.M. t... we observe the
sun on the meridian the resulting
latitude is $41^{\circ}2'6''$ N.

S. $89^{\circ}48'6''$ E. on a random line bet. secs. 8 and 17.

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.10 Intercept N. and S. line. 1 lks N. of cor. of secs.
8, 9, 16 and 17.

Hence we run

N. $89^{\circ}48'7''$ W. on a true line bet. secs. 8 and 17.

Over descending land.

20.00 Bottom of ravine, 90 ft below sec. cor. drains N. ascend

27.00 Top of spur, 150 ft. above ravine, projects N. descend

40.05 Set a gray sandstone 15x11x5 ins - 10 ins in ground. for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m N. face raised

Mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor

Pits impracticable.

48.00 Wagon road bears N 80° E. and S. 80° W.

50.00 Bottom of ravine 200 ft below spur, drains N 80° E.
ascend.

80.10 The cor. of secs. 7, 8, 17 and 18.

This cor. is 120 ft above ravine -

Sand. Mountainous

Soil, Sand, clay, gravel and stony 3rd and
4th rates.

No timber

Mountainous land 80.10 chs.

N. $89^{\circ}33'W$. bet. secs. 7 and 8-

Over ascending land -

35.00 Top of ridge, 300 ft above sec. cor. bears E. and
W. descend.

Subdivision Tp. 8. N. R. 6.E. Continued.

38.00	Wagon road, bears E. and W.
40.00	Set a gray sandstone 28x7x5 ins. 21 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor. Pits impracticable.
77.00	Bottom of ravine, 225 ft below ridge, drains N.E. ascend
80.00	Set a red sandstone 18x11x7.125-12 ins in ground for cor. of secs. 5, 6, 7 and 8. marked 5 notches on S. and E. edges, raised mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor. Pits impracticable. Land mountainous Soil, sand and clay, 3 rd rate No timber Mountainous land 80.00 chs.

	S. $89^{\circ}48' E.$ on a random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N and S. line 27.118 S. of cor. of secs. 4, 5, 8 and 9. Hence we run West on true line bet. secs. 5 and 8. Over ascending land.
2.00	Top of spur, 80 ft above sec. cor., projects N. descend.
13.40	Wagon road bears N. $50^{\circ} E.$ and S. $50^{\circ} W.$
24.00	Bottom of ravine, 200 ft below spur, drains N. ascend
30.00	Top of spur, 185 ft above ravine, projects N. descend
40.05	Set a gray sandstone 28x11x5 ins. 21 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised mound of stone 2 ft base $\frac{1}{4}$ ft high N. of cor. Pits impracticable
60.00	Bottom of ravine, 150 ft below spur, drains N. $60^{\circ} E.$ ascend
69.00	Top of spur, 200 ft above ravine, projects N. $50^{\circ} E$ descend
78.00	Bottom of ravine, 175 ft below spur, drains N. $40^{\circ} E$ ascend
80.10	The cor. of secs. 5, 6, 7 and 8. This cor. is 30 ft above ravine Land mountainous Soil, sandy 2 nd rate No timber Mountainous land 80.10 chs.

Subdivision Tp. 8 N. R. 6 E. continued

No° 03 N. on true line bet. secs. 5 and 6.

Over cascading land

820 Top of spur, 75 ft above sec. cor., projects N.E. descend
14.50 Bottom of ravine, 125 ft below spur, drains N.E. ascend
20.00 Top of spur, 85 ft above ravine, projects N. 70° E.
descend.

39.00 Bottom of ravine, 150 ft below spur, drains N. 40° E.
ascend.

40.00 Set a blue lime stone 18x10x8 ins - 12 ins in ground for
1/4 sec. cor. marked 1/4 on W. face. raise
mound of stone 2 ft base 1/2 ft high S. of cor.
Pits impracticable.

65.00 Top of spur, 180 ft. above ravine, projects N.E. descend
78.62 Intersect 2nd Standard Parallel N. on N. bdy. of Tp.

6.00 chs. N. 89° 30' W. of standard cst of
secs. 31 and 32. which is a boulder
5x10x8 ins above ground marked and
witnessed as described by
Surveyor General -

Set a sandstone 20x8x6 ins - 15 ins in ground
for closing cor. of secs. 5 and 6. marked
C. C. on S. 5 grooves on E. and 1 groove
on W faces. raise mound of stone 2 ft
base 1/2 ft high S. of cor
Pits impracticable.

Land mountainous

Soil, gravelly and stony 4th rate.
No timber

Mountainous land 78.62 chs.

September 20, 1897.

September, 21, 1897. At cor. of secs. 29, 30, 31
and 32. we set off 418 23" N. on lat. arc,
0° 31' N. on decl. arc of one of the instruments
and at 7^h 00^m a.m. P.M.T. determine a
true meridian with the solar.

The foregoing notes show that a line run N. from
this cor. would not intersect N. bdy. of Tp.
near cor. of secs. 25, 30, 31 and 32.

Subdivision D. To S. N. R. 6. E. continued

within the limit prescribed by the Manual of
Instructions therefore we run

Weet on a true line bet. secs. 30 and 31.

Over ascending land

18.50 Wagon road bears N. 80° E and S. 80° W.

22.00 Top ridge, 100 ft above sec. cor. - bears N. 80° E and
S. 80° W. descend.

40.00 Set a gray sandstone 15x10x8 ins 10 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face
raise mound of stone aft base 1/2 ft high
N of cor. Pits impracticable.

50.00 Draw 50 ft below ridge, draws N ascend

75.00 Thence along N. slope

83.12 Intercept N. bdy. of Tp. 250 chs S. of cor of secs.
25, 30, 31 & 36. established by
no. Sept. 11 from which we subtract
all markings appertaining to secs. 30
and 31.

Set a gray sandstone 18x10x6 ins - 12 ins in ground
for closing cor. of secs. 30 and 31. marked
C.C. on E. side groove 3 and 5 groove on N.
face raise mound of stone aft base 1/2 ft high
E of cor. Pits impracticable

Land. Mountainous

Soil Sandy, clay and silty 3rd and 4th rates

No timber

Mountainous land 83.12 Chs.

From the cor. of secs. 19, 20, 29, 30 we run
Weet on a true line bet. secs. 19 and 30.

Over ascending land

18.00 Top of spur. 160 ft above sec. cor., projects N. E.
descend.

34.00 Bottom of Home Canyon, 550 ft below spur, spring
branch 8 chs wide 1 ft. deep, draws N. E. ascend.

36.10 Wagon road bears N. E. and S. W.

40.00 Set a gray sandstone 18x10x8 ins - 12 ins in ground.
for 1/4 sec cor. marked 1/4 on N. face. raise
mound of stone aft base 1/2 ft high N. of cor.
Pits impracticable

Subdivision Tp. 8 N. R. 6 E. Continued

	46.00 Top of Spur, 150 ft above ravine, projects S. descend 53.00 Bottom of ravine, 125 ft below spur, chains S. 70° E. also wagon road parallel to ravine. ascend.
- 83.00	Intersect W. bdy. of Tp. 257 chs. S. of cor. of secs. 19, 24, 25 and 30, established by no Sept. 11, from which we obliterate all markings pertaining to secs. 19 and 30 Set a gray sandstone 20x9x6 ins - 15 ins in ground for closing cor. of secs. 19 and 30, marked C. C. on E. 2 grooves on S. and H. edges. on N. faces raise mound of stone 2 ft base 1 1/2 ft high E. of cor. Pits impracticable Land Mountainous Soil sandy and gravelly 3rd rate No timber Mountainous land 83.00 chs.

	From the cor. of secs. 17, 18, 19 and 20, we run West on a true line secs. 18 and 19. Over descending land
16.00	Bottom of ravine, 200 ft below sec. cor. chains N. 50° W. ascend
30.00	Top of Spur, 250 ft above ravine, projects N. descend
40.00	Set a gray sandstone 18x13x9 ins - 12 ins in ground for 1/4 sec. cor. Marked 1/4 on N. face raise mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
50.00	Bottom of ravine, 175 ft below spur, chains N. 50° E ascend
62.00	E. of spur. 120 ft above ravine, projects S. 60° E descend
- 83.23	Intersect W. bdy. of Tp. 246 chs. S. of cor. of secs 13, 18, 19 and 24, established by no Sept. 11. from which we obliterate all markings pertaining to secs. 18 and 19. Set a gray sandstone 20x9x7 ins - 15 ins in ground for closing cor. of secs. 18 and 19, marked C. C. on E. 3 grooves on S. and H. edges. raise mound of stone 2 ft base 1 1/2 ft high

Subdivision of Tp. 8. N. R. 6. E. Continued

E. of cor. Pits impracticable
Sand mountainous
Soil clay sandy and stony 3rd
and 4th rates
No timber
Mountainous land 83.23 Chs

From the cor. of secs. 7, 8, 17 and 18 we run
out on a tide line bet. secs. 7 and 18.
Over occuring land
18.00 Spur, 90 ft above sec cor. projects S. descend.
along broken S. slope
40.00 Set a gray sandstone 20 x 11 x 8 ins 15 ins in ground
for N. cor. cor. marked from N. face raise
mound of stone 2 ft face 1 1/2 ft high N
of cor. Pits impracticable
50.00 Bottom of ravine, 100 ft below spur. on S. slope
70.00 Spur, 75 ft above ravine on S. slope -
75.00 Ravine, 83 ft below spur on S. slope
83.35 Intersect N. bdy of Tp. 2.55 Chs S. of cor.
of secs. 7, 8, 13 and 18 established
by us Sept. 11 from which we
obliterate all markings appertaining
to secs. 7 and 18
Set a gray sandstone 20 x 9 x 6 ins - 15 ins in
ground for closing on sec. 7 and 18
marked C. C. m. E. + 100 ft on S and 9 grooves
on N. faces raise mound of
stone off face 1 1/2 ft high E of cor
Pits impracticable
Sand mountainous
Soil, gravelly and stony 4th rate
No timber
Mountainous land 83.35 Chs

September 21st At cor. of secs. 5, 6, 7 and 8
we set $73^{\circ} 24'$ N. on decl. arc done
of the instruments and $11^h 53^m$ a.m. D.M.T.
Observe the sun on the meridian

Subdivision of Tp. 8. Tl. R. 6. E. Concluded

the resulting latitude is $41^{\circ}27' N.$

Hence we run

West on a true line bet. secs. 6 and 7

Over ascending land

4.00 Top of spur, 150 ft above sec. cor., projects $N. 30^{\circ} E$
descend

3.00 Bottom of ravine, 350 ft below spur, drains $N. 40^{\circ} E.$ Second

4.00 Set a gray sandstone 28X13X11 ins - 21 ins in
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m N.
face raised mound of stone 2 ft base
 $1\frac{1}{2}$ ft high. N. S. cor. its impracticable

5.00 Top of spur, 375 ft above ravine, projects
N. E. descend

5.400 Bottom of ravine, 325 ft below spur, drains N. E.
ascend

8225. Intercept N. by S. Tp. 2.60 cho. S. of cor. secs.
1, 6, 7 and 12 established by us Sept. 11.
from which delineate all markings
pertaining to secs. 6 and 7.

Set a gray sandstone 24 X 11 X 7 ins 18 ins in
ground for closing cor. of secs. 6 and 7
marked C. O. on E. 5 grooves on S. and
1 groove on N. faces. raise mound
of stone 2 ft. base $1\frac{1}{2}$ ft. high. N. S. cor. its impracticable

Sand mountainous

Soil, sandy, gravelly and stony $2\frac{1}{2}$ to $3\frac{1}{2}$
and $\frac{1}{2}$ ft. rates

No timber

Mountainous land 8.3.25 cho.

September 21. 1897

General Description.

This township contains only mountainous
and bench land, and the soil ranges from
very strong to sandy loam ranging between
 $4\frac{1}{2}$ and $5\frac{1}{2}$ ft. rates. Agriculture could not
be carried on with profit in any part

of the township, and it is of value only for grazing purposes. At this season of the year water is scarce but what there is, is pure and cold.

A few small patches of stunted quaking asp. and some scattering Cedar timber is to be found in different parts of the township. The land is capable of producing an abundance of grass but for some years past it has been overstocked with sheep and cattle.

Alma C. Brown who filed desert entry No. 1352. for north east quarter section (1/4) twelve has sold out his claim and moved away. The Cabin which is but a few dollars value is practically the only improvements made and no one now occupies the place.

There are no other settlers in the portion of the township that comes under our contract.

There is nothing to indicate mineral in the township.

Frank E. Baxter
William Dougall
W.D. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and
ing the lines and corners described in the foregoing field notes of the survey of _____

king the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all
se parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
nner monuments established, according to the instructions furnished by the United States Surveyor
neral for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

scribed and sworn to before me this _____
day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor
solemnly swear that, in pursuance of a contract received from _____
United States Surveyor General for _____, bearing date of _____
day of _____, 189_____, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for _____, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of _____

_____ of the _____
meridian, in the _____ of _____, which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance
with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for _____ and in the specific manner described in the field notes, and
the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah, May 7th, 189_____.
The foregoing field notes of the survey of the subdivisions of Final
8 North Range 6 East of the Salt Lake Base
Meridian, Utah.*

The foregoing field notes of the survey of the subdivisions of Final
8 North Range 6 East of the Salt Lake Base
Meridian, Utah.

executed by *Jacob E. Baxter & William B. Dougall*
under their contract No. *214*, dated *July 31st*, 189_____, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

Jacob E. B. Dougall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

First Grade Meridian East

Through

Townships No. 7 North

Between

Ranges Nos 4 and 5 East

of the Salt Lake Base and Meridian,

The State of Utah

AS SURVEYED BY

W. E. Bowler and William B. Dugall, United States Deputy Surveyors
Under Contract No. 214, dated July 21, 1897

Survey commenced September 22, 1897

Survey completed September 23, 1897

Scale 1 mile = 1500 feet

NAMES AND DUTIES OF ASSISTANTS.

John H. Dougall	Chairman
Thomas H. Halliday	Chairman
John W. Sturges	Chairman
James W. Welch	Chairman
James Stuart	Memberman
David H. Graw	Memberman
Walter W. McLaughlin	Assistan
Thomas Slater	Assistan
George W. Dougall	Flagman
Leander Sallis	Flagman

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Volume

#

R0247

BOOK A-247

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, John H. Dougall, Thomas W. Halliday, John W. Strayer, and James W. Nelson, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

The 1st Meridian East, through Township 7 and North, between Range 4 and 5 East of the Salt Lake Base and Meridian, in the State of Utah.

John H. Dougall
John W. Strayer

Thomas W. Halliday, Chainman
James W. Nelson, Chainman

Subscribed and sworn to before me this 1st

day of August, 1897



Lehigh Mr. Dougall
Notary Public

WE, James Stuart and David H. Graw, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

The 1st Meridian East, through Township 7 & 8 North, between Range 4 & 5 East of the Salt Lake Base Meridian in the State of Utah.

James Stuart, Moundman
David H. Graw, Moundman

Subscribed and sworn to before me this 1st

day of August, 1897



Lehigh Mr. Dougall
Notary Public

WE, Walter W. McLaughlin and Thomas Slater, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey

The 1st Meridian East, through Township 7 & 8 North, between Range 4 & 5 East of the Salt Lake Base Meridian in the State of Utah.

Walter W. McLaughlin, Axman
Thomas Slater, Axman

Subscribed and sworn to before me this 1st

day of August, 1897



Lehigh Mr. Dougall
Notary Public

WE, John H. Dougall and Charles Lallis, do solemnly swear that we will well and truly perform the duties of flagmen according to instructions given us, to the best of my skill and ability, in the survey of The 1st Meridian East, through Township 7 & 8 North, between Range 4 & 5 East of the Salt Lake Base and Meridian in the State of Utah.

John H. Dougall

Charles Lallis, Flagman

Subscribed and sworn to before me this 1st

day of August, 1897



Lehigh Mr. Dougall
Notary Public

Wide Meridian East, through Pts. 7 N., return Rs. 4 and 5 E.

Survey commenced September 22, 1897, and executed with two N. and S. Guly light mountain transit - no number - each with solar attachment. The horizontal limb of each is provided with two double vernier places opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct and were approved by the surveyor general for Utah, August 2, 1897.

We examine the adjustments of the transits and correct the level and collimation error; then test the solar apparatus by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, as follows:-

At the cor. of Pts. 6 and 7 N., Rs. 4 and 5 E. which is a cobble stone 5x8x8 ins above ground, properly marked and intersected, latitude $41^{\circ}17'N$, longitude $111^{\circ}26'W$. we set off $41^{\circ}17'N$ on lat. arc, $0^{\circ}02'S$. on the decl. arc of one of the instruments, and at $3^{\text{h}}\ 00^{\text{m}}$ p.m. l.m.t. determine a true meridian with the solar, and mark a point thereof on a plug driven in the ground 5 chs. N. of the cor.

With the second instrument placed over the same initial point, we set off $41^{\circ}17'N$ on the lat. arc, $0^{\circ}02'S$. on the decl. arc, and at $3^{\text{h}}\ 00^{\text{m}}$ p.m. l.m.t. determine with the solar a true meridian and mark a point thereof on the plug already set 5 chs. N. of our station. This point falls 0.7 ins west of that of the 1st instrument.

At $7^{\text{h}}\ 43^{\text{m}}$ by our watches which are $25^{\text{m}}39^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation with the 1st instrument, in accordance with the Manual of Instructions, and mark a point on the line thus determined, on a plug driven in the ground 5 chs. N. of our station.

September 22, 1897.

September 23, 1897: At 6^h 00^m a.m. E.M.T. we lay off the azimuth of Polaris $1^{\circ}39'$ to the west and mark the true meridian thus determined with the 1st instrument, by a pencil mark on the staff set.

Sept 23, on which the true meridian falls 0.1 in. east of the north determined by the solar of the 1st instrument, and 0.3 in. east of that of the 2^d instrument.

At 7^h 00^m a.m. E.M.T. we set off $41^{\circ}17'N$ on the lat. arc $0^{\circ}16'3''S$ on the decl. arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the staff already set 5 hrs. N. of our station; this mark falls 0.2 in. east of the true meridian established by the Polaris observations.

At 7^h 10^m a.m. E.M.T. we set off $41^{\circ}17'N$ on the lat. arc, $0^{\circ}16'3''S$ on the decl. arc of the 2^d instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the staff already set 5 hrs. N. of our station; this mark falls 0.1 in. east of the true meridian established by the Polaris observations.

The solar apparatus from. and a.m. observations, define positions for true meridians, respectively about 0'5" west and 0'11" east of the true meridian established by the Polaris observations, with the 1st instrument, and 0'16" west and 0'05" east of the same, with the 2^d instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8^h 30^m am is $W7^{\circ}18'3\frac{1}{2}'$, the angle being determined, reduced by the table, page 100, gives the mean mag. decl. $17^{\circ}15'E$.

From the Dp. cor. haversine described, we run N. W. sec. 31 and 36.

Our aiming land, through quarry cut timber.

700 Slope, projects E. ascend 150 ft. to

2000 Bottom of gully, diameter 570° E., ascend 100 ft. to

3700 Top of slope projects E. ascend 100 ft. to stone

Guide Meridian East, through Tps. 7 N. between Rr. 4 and 5 E - Continued.

Difference betw. measurements of 4000 chs.
by two sets of chainmen, is 4.1 chs.; position
of middle point

By 1st set, 4.0 or chs.

By 2nd set, 3.9.98 chs. the mean of which is

4000 Set a gray sand stone 14x8x8 ins. nine in ground
for 1/4 sec. cor. marked 1/4 sec. N. face, nine milled
of stone 2 ft base 1 1/2 ft high 2 1/2 sec. Pit impracticable
Trus too small to mark.

47.00 Bottom of swale, drains S 75° E. ascend. 75 ft

51.00 Top of spur, projects E. descend 60 ft. to

62.00 Bottom of gulch, Springbranch 40 ft wide 1 in. dep
drains S 80° E. ascend 180 ft to sec cor.

Difference betw. measurements of 8000 chs. by two sets
of chainmen is 6 chs.; position of middle point

By 1st set, 80.03 chs.

By 2nd set, 79.97 chs.; the mean of which is

8000 Set a cobble stone 14x8x8 ins. nine in ground for cor.
of cor. 25, 30, 31 and 36. marked with 1 notch on
S. and 5 notches N. edge, nine milled of stone
2 ft. base 1 1/2 ft high 2 1/2 sec. Pit impracticable
A quarry asp 6 ins. diam. base N.E. 40 ft. dist.
marked S. 7 N., R. 5 E., S. 30 B.T.

A quarry asp 6 ins. diam. base S 30° E. 100 ft. dist.
marked S. 7 N., R. 5 E., S. 31 B.T.

A quarry asp 8 ins. diam. base S 20° N. 95 ft. dist.
marked S. 7 N., R. 4 E., S. 36 B.T.

A quarry asp 4 ins. diam. base N 20° N 60 ft.
dist. marked S. 7 N., R. 4 E., S. 25 B.T.

Sand mountainous

Soil, clay, stone and sandy loam 2nd and 3rd tier
Quarry asp timber 80.00 chs.

Mountainous on heavily timbered land 80.00 chs.

N.W. secs 25 and 30

On ascending land, through quarry asp timber.

1.00 Top of ridge base N 60° W and S 60° E. 15 ft. above ground

19.00 Bottom of gulch, drains S.E. 175 ft. below ridge ascend 100 ft.

29.00 Top of spur, projects E. descend 90 ft. to

37.00 Bottom of gulch, drains S 85° E. ascend 150 ft. dep.

Difference betw. measurements of 40.00 chs. by two sets of
chainmen is 7 chs. position of middle point

1st Guide Meridian East, through Twp. 7 N. between Rcs 4 and 5 E - Continued.

	By 1 st set, 40.03 $\frac{1}{2}$ chs.
40.00	By 2 nd set 39.96 $\frac{1}{2}$ chs; the mean of which is Set a gray quartzite 18x10x6 ins. 12 ins in ground for 1/4 sec. cor. marked 1/4000 ft. face, raise mound of stone 2 ft. base 1/2 ft. high 1/4 cor. Pits impracticable. A quarry asp 6 in. dia. bears E. 12 mls dist. marked 1/4 S. 30 B.T.
46.00	A quarry asp 4 ins dia. bears 31°. 15 mls dist. marked 1/4 S. 25 B.T.
59.00	Top of spur, projects E. ascended 75 ft. to Bottom of gulch, dia ins 360° E., ascended 175 ft. to Difference bet. measurements of 8000 chs by two sets of chains, is 16 mls. position of middle point By 1 st set 80.08 chs.
80.00	By 2 nd set 79.92 chs; the mean of which is Set a gray quartzite 16x10x6 ins, 11 ins in ground for cor. size 19, 24, 25, and 30, marked with 2 notches on S and 4 notches on N. edges, raise mound of stone 2 ft. base 1/2 ft. high 1/4 cor. Pits impracticable. A quarry asp 10 ins. diam. bears N. 20° E. 20 mls dist. marked T. 7 N., R. 5 E., S. 19 B.T. A quarry asp 9 ins. diam. bears S. 25° N. 75 mls dist. marked T. 7 N., R. 4 E., S. 25 B.T. A quarry asp 5 ins. diam. bears N. 25° N. 100 mls dist. marked T. 7 N., R. 4 E., S. 24 B.T. No other trees large enough to mark. Land mountainous Soil clayey, stone and gravelly loam 2 nd and 3 rd tiers Quaking asp timber 8,000 chs. Mountainous or heavily timbered land 8,000 chs

The sky is overcast and solar observations are
impossible.

N.W. sec. 19 and 21.

16.00	On arcading land, through quaking asp timber
19.00	Top of ridge, bears S. E. and N. W. 85 ft. above arc. cor. ascend
25.00	Bottom of gulch, dia ins 370° E. ascended 60 ft. to
35.00	Top of spur, projects E. ascended 75 ft. to
	Bottom of ravine, dia ins 360° E. ascended 40 ft. to Difference bet. measurements of 4000 chs. by two sets of chains is 10 mls, position of middle point, By 1 st set 39.95 chs.

side Minidoka East, through Tps. 7 N. between Rs. 4 and 5 E. - Continued

- By 2nd set, 40.05 chs.; the mean of which is
4.000 Set a gray quartzite stone 24x18x8 ins. 18 ins in ground
for 1/4 sec. cov. marked 1/4 on N. face, main mound of
stone 2 ft. base 1 1/2 ft. high 2 1/2 ft. cov. Rita impracticable
A quarrying asp 8 ins. diam. bears S 70° E. 20 ft. dist.
marked 1/4 S, 19 B.T.
A quarrying asp 5 ins. diam. bears S 80° N. 30 ft. dist.
marked 1/4 S 24 B.T. Top of spur projects S 85° E.
4.900 Bottom of gulch, drains E. 60 ft. below 1/4 sec. cov. around 60 ft. to
5.800 Top of spur projects E. descend. 70 ft. W.
6.700 Bottom of gulch, drains S 83° E. around. 90 ft. W.
7.9.00 Top of spur projects S 75° E.
Difference bet. measurements of 8.000 chs. by two sets of
chains is 8 lbs. position of middle point,
By 1st set 8.004 chs.
By 2nd set 7.9.6 chs., the mean of which is
8.000 Set a gray sand stone 14x10x6 ins. 9 ins in ground
for cov. of secs 13, 18, 19, and 24, marked with 3
notches on N and S edges, from which
A quarrying asp 1 1/2 ins. diam. bears N 40° E. 70 ft. dist. marked T.7 N, R.5 E., S.18 B.T.
A quarrying asp 8 ins. diam. bears S 60° E. 40 ft. dist.
marked T.7 N, R.5 E., S.19 B.T.
A quarrying asp 16 ins. diam. bears S 45° N. 80 ft. dist.
marked T.7 N, R.4 E., S.24 B.T.
A quarrying asp 10 ins. diam. bears N 30° W. 30 ft. dist.
marked T.7 N, R.4 E., S.13 B.T.

Land mountainous

Soil clay, and sandy loam, 2nd and 3rd mts.

Quarrying asp timber 8.000 chs.

Mountainous or heavily timbered land 8.000 chs.

N. bet. mts 13 and 14.

On descending land, through quarrying asp timber.

- 9.000 Bottom of gulch, drains S 80° W. 100 ft. below sec cov, around 175 ft. to
36.000 Top of divide, bet. Ogden River and Lost Creek drainage,
also wagon road, bear N 70° E. and S 70° N. descend.
Difference bet. measurements of 4.000 chs. by two sets of
chains is 5 lbs. position of middle point

By 1st set 4.002 1/4 chs.

By 2nd set 3.9.97 1/2 chs., the mean of which is

- 4.000 Set a gray quartzite stone 30x10x8 ins. 23 ins. in

1st Guide Meridian East, through Twp 7 N, between R.s. 4 and 5 E. - Continued.

	ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on $\frac{1}{4}$ face, raised mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{8}$ in. Pitt impracticable
5000.	Bottom of Bear Gulch 200 ft. below divide, spring head 5 ft. wide 4 ins. damp, drains W. also learn quarter asp, ascend .40 ft.
59.00.	Thence nearly level, along N. slope spur, projecting S. also enter pine timber, bearing W. and N.E.
64.00.	Seam fine, enter quariting asp timber, bearing E. and N.W.
65.00.	Thence ascend along N. slope. Difference bet. measurements of 6000 chs. by two sets of chainmen is 15 ft.; position of middle point By 1 st set 800 7/8 chs. By 2 nd set 799 1/4 chs; the mean of which is
8000.	Set a gray quartzite stone 16 x 8 x 6 ins. 11 ins. ingrained for cor. of sec. 7, 12, 13, and 15, marked with 2 notches on N. and 4 notches on S. edge. - same mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{8}$ of cor. Pitt impracticable A quariting asp 12 ins. diam. bears 45° E. 40 ft. dist. marked T.7 N. R.5 E., S.7 B.T. A quariting asp 8 ins. diam. bears 330° E. 40 ft. dist. marked T.7 N. R.5 E., S.16 B.T. A quariting asp 9 ins. diam. bears $145^{\circ} \frac{1}{2}$ E. 20 ft. dist. marked T.9 N. R.4 E., S.13 B.T. A quariting asp 13 ins. diam. bears N. 30° E. 30 ft. dist. marked T.7 N. R.4 E., S.12 B.T. Sand mountainous S. oil clay, stone; and gravelly loam, $2\frac{1}{2}$ to $3\frac{1}{2}$ in. $\frac{1}{4}$ in. stones Timber, pine 5 chs, quariting asp 66 chs. Mountainous or mainly timbered land 8000 chs
	N. Mt. secs 7 and 12
37.00	On ascending N. slope, through quariting asp timber. Thence gradual descent along N. slope. Difference bet. measurements of 4000 chs. by two sets of chainmen is 3 ft., position of middle point By 1 st set 39.9 8/8 chs. By 2 nd set 4001 1/8 chs; the mean of which is
40.00	A quariting asp 8 ins. diam., for $\frac{1}{4}$ sec. cor. in marked $\frac{1}{4}$ S. 12 on N. side, S. 7 on E. side, from which A quariting asp 12 ins. diam. bears 540° E. 40 ft. dist. marked $\frac{1}{4}$ S. 7 B.T. A quariting asp 8 ins. diam. bears N. 15° E. 40 ft. dist. marked $\frac{1}{4}$ S. 12 B.T.

side Meridian East, through Tps. 7 N. between Rs. 4 and 5 E.-Continued

5000	Head of draw, drains SW sec.
7000	Top of divide bet. Bear River and Ogden River drainage, also wagon road, bear NW and S.E., also from Bear River.
	Difference bet. measurements of 8,000 chs., by two sets of chainmen is 14 ft., position of middle point, By 1 st set 9.94 chs. By 2 nd set 8.06 chs.; the mean of which is
8000	A quartering asp 7 ins. diam. for cor. of sec. 1, 6, 7, and 15 is marked T. 7 N., S. 6 on N. E. R. 5 E., S. 7 on S. E. Q. 4 E., S. 12 on S. W. and T. 7 N., S. 1 on N. W. side; with 1 notch on N and 5 notches on S. sides, from which A quartering asp 10 ins. diam. bears N 45° E. 40 ft. N.E. dist. marked T. 7 N., R. 5 E., S. 6 B.T. A quartering asp 8 ins. diam. bears S. 45° E. 30 ft. E. dist. marked T. 7 N., R. 5 E., S. 7 B.T. A quartering asp 10 ins. diam. bears S. 80° N 10 ft. E. dist. marked T. 7 N., R. 4 E., S. 12 B.T. A quartering asp 16 ins. diam. bears N 80° N 12 ft. E. dist. marked T. 7 N., R. 4 E., S. 1 B.T.
	Land mountainous Soil, clay and sandy loam, surface 3 ¹ / ₂ in. to 1 in. Quarting asp timber 8,000 chs. Mountainous w/ heavily timbered land 8,000 chs.
	N. W. sec. 1 and 6
6.00	On descending land, through quartering asp timber
Bottom of gulch, drains E., secund. 70 ft. to	
13.00	Spur projects E., descud. 300 ft. to crest.
16.00	Lean quartering asp, inter heavy pine timber bears E. and N.
16.39	Pine 16 ins. diam. on line marked 2 notches on N and 3 sides
31.75	Bottom of Woodruff or 12 Mile Cañon, branch 1st side 1 in. deep, drains E., also lean pine bears E. & N. secund.
32.25	Old wagon road, bears E. and N.
	Difference bet. measurements of 4,000 chs., by two sets of chainmen is 9 ft., position of middle point By 1 st set 14.04 chs. By 2 nd set 3.95 chs.; the mean of which is
40.00	Set a gray sandstone 14 x 10 x 6 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raised mound

1st Grade Meridian East, through Tps. 7 N. Between Rs. 4 and 5 E. - Conclu-

44.00	of stone 2 ft. base $1\frac{1}{2}$ ft. high & of coniferous timber. Top of spur projects E. also inter quaking asp timbers same mining, spire 15.5 ft. above cut drain 100 ft to
52.50	Bottom of gulch, drain 5.70° E. ascend. 22 ft. to
76.00	Top of ridge, bear E and N. descended. +0 ft to Difference bet. measurements of 80.00 chs. by two sets of chains is 12 ft., position of middle point By 1 st set 80.06 chs.
	By 2 nd set 79.94 chs, the mean of which is
80.00	Sit steep cor of Tps 7 and 8 N., Rr 4 and 5 E. which was afterward made permanent, as described in notes of survey of T. 7 N. R. 5 E. book No. C. Land mountainous Soil clay, stone and sand below 2 nd and 3 rd ridges Timber, pine 15.75 chs. quaking asp 52-60 chs. Mountainous or heavily timbered land 80.00 chs.

September 23, 1897.

General Description

For general description, see notes of the survey
of the sub-divisional lines of T. 7 N., R. 5 E., also the same
of T. 7 N., R. 4 E.

Frank E. Barker

William B. Donald

U. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
king the lines and corners described in the foregoing field notes of the survey of
ving the respective capacities in which they acted:

....., Chainman.
....., Chainman.
....., Moundman.
....., Moundman.
....., Axman.
....., Axman.
....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
e parts or portions of the

..... of the
..... meridian, of, which are represented
he foregoing field notes as having been surveyed by him and under his direction; and that said survey
been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
er monuments established, according to the instructions furnished by the United States Surveyor
ederal for

....., Chainman.
....., Chainman.
....., Moundman.
....., Moundman.
....., Axman.
....., Axman.
....., Flagman.

scribed and sworn to before me this }
day of , 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

United States Deputy Surveyor

I solemnly swear that, by government of a witness hereof present before me,

William Fletcher Deputy Surveyor, Esq.

I have well examined, and made myself acquainted with all the maps, plans, and other documents, and with all the instructions given to me in making the survey now in progress, and I have made myself acquainted with the instructions furnished by the United States Surveyor General, and with the Manual of Surveying Instructions, and his Contract Policies, and expect you to make particular reference to

the following articles, which are representative of the survey now in progress, and which are to be used in making the survey now in progress, and I do further declare that all the expenses of said survey have been calculated and proportioned to strict accordance with the rules and regulations and the special written instructions of the United States Surveyor General, and that I have no personal interest in the survey, and as the specific expenses deposited in the field house, or otherwise, are the original field notes of said survey; and should any fraud be detected, I shall promptly report the same to the Surveyor General at an early day, upon appearance August 6, 1862.

United States Deputy Surveyor

Sworn before me this day

August 6, 1862.

Wm. F. Fletcher
Deputy Surveyor

APPROVAL.

JOHN M. THOMAS, SURVEYOR GENERAL.

John M. Thomas,
Surveyor General of the United States, President
and members of the Board of Commissioners of the
Land Office, Washington, D. C.

I certify that the survey of the right bank of the
Mississippi River, from the mouth of the Arkansas River to the
mouth of the Colorado River, was made in accordance with the instructions given to me, and that the results of the survey are accurate.

John M. Thomas
Surveyor General

I certify that the surveying instruments of the field offices of the above-named surveys have been accurately copied from the original notes on file in this office.

Wm. F. Fletcher
Deputy Surveyor

United States Deputy Surveyor

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BOOK A-247

G.J.B.

FIELD NOTES

OF THE SURVEY OF THE

North Boundary
of

Township No 7 North, Range N 5 East

of the Salt Lake Base and Meridian,
the State of Utah

AS SURVEYED BY

and E. Bowler and William B. Dougall, United States Deputy Surveyor,
under his Contract No. 214, dated July 21, 1897

Survey commenced September 24, 1897

Survey completed September 24, 1897

A. Bowler Wm. B. Dougall ✓

NAMES AND DUTIES OF ASSISTANTS.

John Dowall	Chairman
Frank Colley	Chairman
John Strelak	Chairman
James McKeekie	Chairman
James Stark	Minuteman
David Polson	Minuteman
Walter McNaughton	Amateur
Thomas Satter	Amateur
George E. Dougall	Flagman
Charles Satter	Flagman

Volume

#

R0247

BOOK A-247

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30	29	28	27	26	25	24	23
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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assay measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chain

....., Chain

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

....., Mound

....., Mound

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Arm

....., Arm

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flag

Subscribed and sworn to before me this }
day of , 189 }



North Boundary of T.7 N, R.5 E.

Survey commenced September 24, 1897, and executed with two N and L E. Survey lightmountain transits - no number - each with solar attachment. A complete description of the transits and of the required list thereof, is given at the beginning of the notes of the survey of the 1st Guide Meridian East, through Tps. 7 N. between Rs. 4 and 5 E.; under date, Sept. 2nd and 23rd. Such care has been exercised in the use of the instruments, that we are certain the instruments are still in satisfactory adjustment.

We begin at the temporary cor. of Tps. 7 and 8 N., Rs. 4 and 5 E., established by us Sept. 23,

thence we run

East on a random line, along N. bdy. of Tp. 7 N.

R 5 E., setting transits $\frac{1}{4}$ sec and sec. cor. at intervals, of 4000 and 8000 chs.; and, at 4543 $\frac{1}{2}$ chs. intersect the range line, betw. ranges 5 and 6 E.

+041s S. of the cor. of Tps. 7 and 8 N. Rs. 5 and 6 E. which is a sandstone $6 \times 10 \times 6$ ins. above ground, marked and situated as described by surveyor general. The falling curve is to a correction of practically $0^{\circ}0'3''$ in 7th N. per. mile, counting from the N.W. cor. of the Tp.; therefore for me

$S\ 89^{\circ}57'7''$ W on a true line betw. sec 1 and 36.

On gentle ascent, along S. slope. 150 ft. to

24.00 Spur, projects S. descended, 90 ft to

34.00 Draw on S. slope ascended 200 ft to spur

4.000 Set a gray sand stone $16 \times 10 \times 6$ ins, 11 ins in ground for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on N face, raised mound of stone 2 ft base $1\frac{1}{2}$ ft high N of cor. Pitt impracticable.

5.000 Top of spur on S. slope, descended. 120 ft to

62.70 Bottom of gulch, drains S. E. thence ascended along steep N. slope. 150 ft to sec. cor.

8.000 Set a gray sand stone $24 \times 12 \times 6$ ins. 18 ins in ground for cor. of secs. 1, 2, 3, 5 and 36, marked with 1 notch on E and 5 notches on N edges, raised mound of stone 2 ft base $1\frac{1}{2}$ ft high N of cor. Pitt impracticable

Land mountainous

Soil, clay, stone and gravelly waste, 3rd state

North Boundary of T.7 N, R.5 E. - Continued

No timber

September 24; At this cor., we set off $0^{\circ}46' 5''$ S. on the decl. arc of one of the instruments, and $11^{\text{h}} 52^{\text{m}}$ a.m. L.M.T. observed the sun on the meridian, the resulting lat. is $41^{\circ}23' N.$

Mountainous land 8000 chs.

$S.89^{\circ}57' N.$ bet secs 2 and 35

On ascending land. 250 ft. to

2500 Top of ridge bears $S.60^{\circ}E.$ and $N.60^{\circ}W.$ descended 125 ft. to

4000 Set a gray sand stone $20 \times 12 \times 6$ ins 15 ins in ground
for $1/4$ acre cor. marked $1/4$ row N face, raised mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable.

Also Head of draw on S. slope, ascended .100 ft. to

5500 Top of spur, projects S. gully dissected along S. slope.

Set a gray sandstone, $22 \times 16 \times 8$ ins, 16 ins in ground
for cor. of secs 2, 3, 34, and 35, marked with 3 notches
on E. and 4 notches on W. edge, raised mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable

Land mountainous

Soil: clay, stony and gravelly loam 3^{rd} rate

No timber

Mountainous land 8000 chs.

$S.89^{\circ}57' N.$ bet secs 3 and 34

On gully dissected, along S. slope,

2900 Gulch, drains S.E. 150 ft. below last spur, around 225 ft. to ridge

4000 Set a gray sand stone $16 \times 10 \times 6$ ins 11 ins in ground
for $1/4$ acre cor. marked $1/4$ row N face, raised mound
of stone 2 ft. base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable

5300 Top of ridge, also wagon road, bear $N.15^{\circ}W.$ and $S.15^{\circ}E.$, descended

8000 Set a gray sand stone $30 \times 16 \times 8$ ins, 23 ins in ground
for cor. of secs. 34, 33, and 34, marked with 3 notches
on E. and W. edges, raised mound of stone 2 ft. base $1\frac{1}{2}$
ft. high N of cor. Pits impracticable. 200 ft. below ridge

Land mountainous.

Soil: clay, stony and sandy loam 2^{nd} and 3^{rd} rates

No timber

Mountainous land 8000 chs.

$S.89^{\circ}57' N.$ bet secs 4 and 33

On descending land.

North Boundary of T. 7 N., R. 5 E. - Continued.

2.00	Gulch, drains N. W. ascend.
4.00	Spruce projects N. descend.
8.25	Bottom of gulch, drains N. 20° E. ascend. 200 ft to spruce.
11.00	Enter quaking asp timber, bears N. and S. three along N. slope.
15.00	Lean quaking asp, inter pine timber, bearing N. and S.
38.00	Lean pine, inter quaking asp timber, bearing N. and S.
4.000	A quaking asp 10 ins. diam. for 1/4 acre cov. in marked 1/4 S. 33 on N. and S. 4 on S. sides, from which A quaking asp 8 ins. diam. bears N. N. 30' 1/4 acre dist. marked 1/4 S. 33 B. T.
	A quaking asp 8 ins. diam. bears S. 53° E. 20' 1/4 acre. dist. marked 1/4 S. 4 B. T.
55.00	Pine on N. slope, ascend.
64.00	Spruce, projects N. descend. 100 ft to west.
78.00	Lean quaking asp, inter pine timber, bear N. and S.
8.000	A pine 18 ins diam. for cov. acres. 4, 5, 32, and 33, in marked S. 8 N., S. 33 on N. E.
	R. 5 E., S. 4 on S. E.
	T. 7 N. S. 5 on S. W. and S. 32 on N. W. sides; with notches on N. and 4 notches on S. sides, from which A pine 24 ins diam. bears N. 70° E. 40' 1/4 acre dist. marked T. 8 N., R. 5 E., S. 33 B. T.
	A pine 16 ins diam. bears S. 5° E. 25' 1/4 acre dist. marked T. 7 N., R. 5 E., S. 4 B. T.
	A pine 10 ins diam. bears S. 80° N. 85' 1/4 acre dist. marked T. 7 N., R. 5 E., S. 5 B. T.
	A pine 8 ins diam. bears N. 45° W. 20' 1/4 acre dist. marked T. 8 N., R. 5 E., S. 32 B. T.
	Land mountainous
	Soil, clay, stone, and sandy loam sand and sand ridges
	Timber, pine 25.00 chs, quaking asp 44.00 chs
	mountainous or heavily timbered land 8.000 chs.

\$ 89.57 1/4. Int. secs 5 and 32.

4.00	Over descending land, through pine timber descend 80 ft to quaking asp, lean pine, inter quaking asp timber bearing N. and S.
8.00	Bottom of gulch, drains N. ascend. 60 ft to
14.00	Spruce, projects N. 20° E. descend 350 ft to east.
36.00	Lean timber, bears N. E. and S. W.
37.96	Woodruff or 1/2 mile creek, 10' 1/4 acre wide 4 ins deep, also bottom of Cañon, drains N. E. drifts around.
4.000	Sets a sand stone 18 x 10 x 8 ins. 12 ins in ground for 1/4 acre

North Boundary of T7N R.5E. - Continued

		cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $\frac{1}{2}$ ft. high N of cor. Pitt impractical.
6.000		Essent. quarrying asp timber, mars N and S. Lean same, same mining.
7.000		
7.8.00		Cutter quarrying asp, timber mars, N and S.
8.0.00		Set a gray fossil stone $32 \times 10 \times 8$ in 2+ ins in ground, for cor. of res 5, 6, 31, and 32, marked with 1 notch on N and 5 notches on E edges, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N of cor. Pitt impractical a quarrying asp 6 ins diam, mars N 45° E, 50 ft. dist. marked T.8 N, R.5 E, S.32 B.S.
		A quarrying asp 10 ins diam mars N 45° E 1.50 chs dist. marked T.7 N, R.5 E, S.5 B.S.
		A quarrying asp 3 ins diam mars S 45° N + 0 ft. dist. marked T.7 N, R.5 E, S.6 B.S.
		A quarrying asp 12 ins diam mars N 45° E 50 ft. dist. marked T.8 N, R.5 E, S.31 B.S.: This cor. is about 450 ft. above elev.
		Sand mountainous
		Soil clay, stone and loose $\frac{3}{4}$ in. mat.
		Timber, pine 400 chs, quarrying asp 4+00 chs.
		Mountainous or heavily timbered land 8.000 chs.
		S.89 $^{\circ}$ 57' N. 20 ft. res 6 and 31
		On ascending land, through quarrying asp timber. 125 ft. to
2.000		Top of ridge, bns N 60° E and S 60° N. Second 200 ft. to
3.7.00		Lean quarrying asp, cut pine timber, mars N and S.
4.0.00		Set a gray sand stone $17 \times 10 \times 7$ ins 11 ins in ground for $\frac{1}{4}$ acre. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N of cor. Pitt impractical A pine 12 ins. diam. mars N. 30 ft. dist. marked $\frac{1}{4}$ S.31 B.S.
		A pine 14 ins diam. mars S.10 $^{\circ}$ N. 10 ft. dist. marked $\frac{1}{4}$ S.6 B.S.
4.6.00		Bottom of ravine drain N. around. 125 ft. to top cor.
5.0.00		Lean pine; cutter quarrying asp timber, mars N and S.
5.4.32		The temp cor of Tpls. 7 and 8 N, Rs. 4 and 5 E, when we Set a gray sand stone $16 \times 10 \times 8$ ins 11 ins in ground for cor of Tpls. 7 and 8 N, Rs. 4 and 5 E, marked with 6 notches on N, E, S, and W. edges, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high S of cor. Pitt impractical
		A quarrying asp 12 ins diam. mars N 15° E, 20 ft. dist. marked T.8 N, R.5 E, S.31 B.S.

North Boundary of T.7 N., R.5 E.—Concluded.

A quarrying asp 10 ins diam, bears 530° E., 20 ft. dist.
marked T.7 N., R.5 E., S. 16 B.T.

A quarrying asp 12 ins diam bears 531.15° E.
dist. marked T.7 N., R.4 E., S. 1 B.T.

A quarrying asp 13 ins diam bears 531.75° E. + off
dist. marked T.8 N., R.4 E., S. 36 B.T.

Land mountainous.

Clay, stone and granite boulders and 3rd water
Timber, pine 13.00 chs., quarrying asp 41.32 chs.
Mountainous or mainly timbered land 54.32 chs.

September 24, 1897.

General Description —

For general description, see notes of the survey
of the subdivisional lines of T.7 N., R.5 E.

Frank E. Barker
William B. Dougall
U.S. Deputy Surveyors

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
N. Bdy T.6 N., R.5 E.	West	455.45				455.45
1st Midmeridian E.	North	480.00	480.00			
N. Bdy T.7 N., R.5 E.	$71.89^{\circ} 57' .85$	454.32	0.46		454.32	
W. Bdy T.7 N., R.6 E.	$5.0^{\circ} 03' E.$	480.00		480.00	40.	
Convergency					64	
Totals			480.40	480.00	455.36	455.45
Error in latitude			48.00			455.36
			0.40	Error in dep.		0.09

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

Chairman,
Chairman,
Chairman,
Chairman,
Chairman,
Chairman,
Chairman,
Chairman,

FINAL PATH OF ADMITANTO.

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For more information about the study, contact the study coordinator at 800-232-4237 or visit www.cancer.gov.

1. *Chlorophyceae*
2. *Phaeophyceae*
3. *Rhizarians*
4. *Amoebozoa*
5. *Forams*
6. *Alveolates*
7. *Stramenopiles*
8. *Ascomycota*
9. *Basidiomycota*
10. *Fungi*
11. *Microsporidia*
12. *Monotrichia*
13. *Excavata*
14. *Proteobacteria*
15. *Actinobacteria*
16. *Bacteroidetes*
17. *Proteobacteria*
18. *Gram-negative bacteria*
19. *Gram-positive bacteria*
20. *Archaea*

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

United States Deputy Surveyor

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for _____, I have well, faithfully, and truly, performed my part, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the United States Surveyed all those parts or portions of _____, bearing _____ day of _____, 18_____, I have well, faithfully, and truly, performed my part, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the United States Surveyed all those parts or portions of _____, bearing _____ day of _____, 18_____.
I further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes; and the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 18_____. {

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0 SEAL
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APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Ute Mts., May 7th
The foregoing field notes of the survey of *The North Boundary of*
Township of Ute Range 5 East of the Salt Lake Box
& Meridian, Utah.

executed by *James P. E. Maxting & Wallace B. Dougall*
under the contract No. *24*, dated *October 21, 1897*, having
critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Ja 1st 1898

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines
of

Township No 7 North, Range No. 5 East.

of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

John E. Baxter and William B. Daughell, United States Deputy Surveyors

Under their Contract No. 214, dated July 21, 1897

Survey commenced September 25, 1897

Survey completed October 2, 1897

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Total Miles Traversed

Contingent fee \$200.00 ✓

NAMES AND DUTIES OF ASSISTANTS.

John C. Dougall	Chambers
Thomas W. McAllister	Chambers
George H. Striper	Chambers
James N. Nichols	Chambers
James Stark	Moratorium
Frank G. Knob	Moratorium
Walter W. McLaughlin	Auxiliary
Thomas Slater	Auxiliary
George M. Dougall	Plagueine
Charles Lattis	Plagueine

INDEX DIAGRAM.

Township _____, Range _____

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18 38	34 33	17 27	16 26	20 26	15 26	13 13	14 13	7 6	13 6
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31 30	32 32	23 23	33 33	16 16	34 34	10 10	35 35	3 3	36 36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of , Chain

Subscribed and sworn to before me this }
day of , 189 }
.....



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of , Mound

Subscribed and sworn to before me this }
day of , 189 }
.....



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of , Ax

Subscribed and sworn to before me this }
day of , 189 }
.....



I, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of , Flag

Subscribed and sworn to before me this }
day of , 189 }
.....



Subdivision of T.7 N. R.5 E.

Sunrise commenced September 25, 1897, and executed with two N and S. E. Burley light mountain transit instruments - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, making 10 single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct and were approved by the surveyor general for Utah, August 2, 1897.

We examine the adjustments of the transits and correct the level and collimation errors; then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris, we proceed as follows:-

At the cor. of 3 per. b and 7 N, R.5 and b E, latitude $41^{\circ}17'N$, longitude $111^{\circ}19'W$, we set off $41^{\circ}17'N$ on the lat. arc, $1^{\circ}13' S$ on the decl. arc and at $3^{\text{d}} 5^m$ p.m. l.m.t. determine with the solar of one of the instruments a true meridian and mark a point thereof on a plug driven in the ground 5 chs. N. of the corner. With the second instrument placed over the same initial point, we set off $41^{\circ}17'N$. on the lat. arc, $1^{\circ}13' S$ on the decl. arc, and at $3^{\text{d}} 5^m$ p.m. l.m.t. determine with the solar a true meridian and mark a point thereof on the plug already set 5 chs. N. of our station. This point falls identical with that of the 1st instrument.

At $7^{\text{h}} 30^m$ by our watches which are $25\frac{1}{2}^{\text{m}}$ fast of l.m.t., we observe Polaris at eastern elongation with the 1st instrument, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of our station.

September 25, 1897.

September 26, 1897. At 6^h a.m. l.m.t. we lay off the

Subdivision of T7N R5E — Continued

azimuth of Polaris $1^{\circ}39'$ to the west and mark the true meridian thus determined with the 1st instrument — by a pencil mark on the stake at Sept. 25, on which the true meridian falls 0.2 ins. east of the mark determined by the solar or both instruments.

At 7th 50^m a.m. Lmt in set off 4° 17' N on the lat. arc, $1^{\circ}26'$ S on the decl. arc of the 1st instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. from station; this mark falls 0.2 ins. east of the true meridian established by the Polaris observations.

At 7th 10^m a.m. Lmt in set off 4° 17' N on the lat. arc, $1^{\circ}26'$ S on the decl. arc of the second instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. from station; this mark falls 0.3 ins. east of the true meridian established by the Polaris observations.

The solar apparatus by p.m. and a.m. observations define positions for true meridians, respectively about 0' 11" west and 0' 11" east of the true meridian established by the Polaris observations — with the 1st instrument, and 0' 11" west and 0' 16" east of the same, with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8th 30^m a.m. is N $17^{\circ}16'$ W; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $17^{\circ}13'$ E.

September 26, 1897.

September 27, 1897. From the Tp. cor. which is a sand stone 8x6x4 ins. above ground, marked and situated as described by surveyor Grundl, we run

north on east boundary of sec 36, and at 40.03 chs fall 3 chs east of the 1/4 sec. cor.; and at 80.02 chs, fall 7 chs east of the cor of secs 25, 30, 31, and 36,

Subdivision of T.7 N, R.5 E. - Continued

by continuing our line north, we find that the chaining practically agrees with the route of the original survey, but the course of the E. bdy of this Tr. is N. $0^{\circ}3'3\frac{1}{2}$.

From the Tr. cor. we run N. on the S. bdy. of sec 36; at 40.01 ch., intersect the $\frac{1}{4}$ sec. cor., and at 80.01 intersect the cor. of secs. 1, 2, 3, 5 and 36 on S. bdy. of Tr., consequently the S. bdy. of sec 36, bears N.

Therefore, the running of the S. bdy. of sec 36 is as required by the Manual, and our chaining practically agrees with that of S. E. Read & G. A. L.

We commence at the cor. of secs 1, 2, 3, 5 and 36, which is a blue lime stone $5 \times 9 \times 6$ ins above ground, flat, fully marked and intersected.

Thence we run

N. $084'3\frac{1}{2}$. W. bet sec 35 and 36.

Our descending land through quaking asp and scattering pine timber. 25 ft to

1.2.0 Bottom of gulch, drain N. 80° E. also bear timber parallel to gulch, abrupt ascent.

5.00 Thence gentle ascent along E. slope.

21.00 Top of spur on E. slope. also with dense willow undergrowth, bearing E. and N. spur root framework.

26.00 Bottom of drain on E. slope. also bear willow bearing E. and N. slight ascent,

29.00 Abrupt descent on N. E. slope 300 ft. to creek

35.00 Enter pine timber, bearing N.W. and S.E.

40.00 Set a gray lime stone $18 \times 12 \times 10$ ins, 12 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Site impracticable.

A pine 18 ins diam bears S. 35° E. 35 ft. dist. marked $\frac{1}{4}$ S. 36 BT.

A pine 20 ins diam bears N. 41° . N. 44 ft. dist. marked $\frac{1}{4}$ S. 35 BT.

50.00 Branch of Last Creek 15 ft. wide 1 ft. deep, also bottom of cañon, drain S. 25° E., abrupt ascent. also bear pine timber parallel to cañon.

63.00 Enter scattering pine, bearing E. and N.

80.00 Set a gray lime stone $14 \times 10 \times 8$ ins. 9 ins in ground.

Subdivision of T7N R5E - Continued

for cor. of secs. 25, 26, 35, and 36, marked with
1 notch on S. and E. edges. raised mound of
stone 2 ft base $\frac{1}{2}$ ft high N. of cor. Posts imperceptible.
A cedar 14 ins diam was N $80^{\circ} E.$, 1 ch. dist.
marked T7N, R5E, S25 BT.

A pine 16 ins diam was N $40^{\circ} E.$, 1 ch. dist.
marked T7N, R5E, S36 BT.

A cedar 14 ins diam was N $76^{\circ} N.$ 80 ft. dist.
marked T7N R5E S26 BT.

No other trees within limits, about 300 ft apart.

Land mountainous

Soil, stony and loam, $\frac{2}{3}$ rd and $\frac{3}{4}$ th ratio

Pine timber 32.00 chs., willow undergrowth 4.56 chs.
mountainous or heavily timbered land 8000 chs.

East on a random line bet. secs. 25 and 36.

Set stump $\frac{1}{4}$ sec. cor.

Intersection E. body of Tp., 20 ft. north of cor. of secs. 25,
30, 31, and 36, which is a quartzite stone
 $4 \times 8 \times 4$ ins above ground, marked and situated
as described by surveyor general

Three no min

N $84^{\circ} 51' 2\frac{1}{2}$ ft. on a tree line bet. secs. 25 and 36.

On ascending land, 10 ft. w

16.00 Top of spur, projects S. ascend 150 ft. w

24.80 Bottom of ravine, drains S. ascend 300 ft. w spur

40.02 $\frac{1}{2}$ Set a gray quartzite stone $15 \times 8 \times 6$ ins 10 ins in
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face,
raise mound of stone 2 ft base $\frac{1}{2}$ ft high,
N. of cor. Posts imperceptible.

51.00 Top of spur, projects S $40^{\circ} 7\frac{1}{2}$ ft. steep descent 200 ft.
also into scattering pine timber mark N $40^{\circ} 8$
and S $40^{\circ} 7\frac{1}{2}$

80.05 The cor. of secs 25, 26, 35, and 36.

Land mountainous

Soil, stony and loam, $\frac{2}{3}$ rd and $\frac{4}{5}$ th ratio.

Scattering pine timber 29.05 chs.

Mountainous land 8005 chs.

N $0^{\circ} 04' 3\frac{1}{2}$ ft. bet. secs 25 and 26.

On gentle ascent, along steep $\frac{1}{2}$ ft. slope, through
scattering pine timber

Subdivision of T7N R5E - Continued

33.00	Thence descended on N. 34° E. slope 125 ft. to ridge.
40.00	A pine 24 ins. diam. for 1/4 sec. cor. was marked. 1/4 S. 26 on N and S. 25 on E sides, from which A pine 36 ins diam, bears N. 85° W. 23 1/2 ft. dist. marked 1/4 S. 26 B.T.
	A pine 8 ins diam. bears N. 79° E. 30 ft. dist. marked 1/4 S. 25 B.T.
43.00	Bottom of ravine drains S. 60° W., ascended 70 ft. to
50.00	Top of spur projects S. 60° W. descended. 100 ft. to
55.00	Bottom of ravine, drains S. 60° W., ascended 150 ft. to
68.00	Top of spur, projects N. descended. also a few timber
80.00	Sed a gray sand stone 15 x 9 x 7 ins. 10 ins. in ground for cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on E edges, raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable. 125 ft. below spur Land mountainous Soil stony and loamy; 3 rd water. Scattering fine timber 18.00 chs. Mountainous land 8.00 chs.

	S. 89° 5' E. on a random line bet. sec. 24 and 25.
40.00	Sed. temp 1/4 sec. cor.
80.15	Intersect E. way. of Tp. 14 1/2. S. of cor. of secs. 19 24, 25, and 30, which is a sandstone 6 x 10 x 4 ins above ground, marked and returned as described by surveyor general.
	Thence up river N. 89° 5' W. on a random line bet. sec. 24 and 25.
	On abrupt ascent on S. 71° E. slope 400 ft. to
30.00	Top of ridge, bears S. 40° W. and N. 40° E. descended. 150 ft.
35.00	Ravine, drains S. 40° W., ascended. 75 ft. to ridge.
40.07 1/2	Sed a red sand stone 19 x 11 x 5 ins. 14 ins. in ground for 1/4 sec. cor. marked 1/4 on N face, raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable
45.00	Top of ridge, bears N. 60° E. and S. 60° W. descended
80.15	The cor. of secs. 23, 24, 25, and 26. 500 ft. below ridge Land mountainous Soil, clay, stony and loamy, 2 nd and 3 rd water No timber Mountainous land, 80.15 chs

Subdivision of T. 7 N. R. 5 E. - Continued

September 27; At 12th noon m. l.m.t. at the cor. of sec. 24, 25 and 26, we set off 157' N on the decl. side and observe the sun on the meridian, the resulting latitude is 41° 18' N.

Then we are

N. 0° 04' N. W. sec. 23 and 24.

On descending land, 150 ft. to

- Bottom of ravine, spring branch 4 ft. wide 4 ins. deep, drains 7%. ascend abruptly 250 ft. to
 Then a gentle ascent along steep west slope.
 Set a gray cobble stone 13 x 8 x 6 ins. 9 ins. in ground
 for 1/4 sec. cor. marked 1/4 on N. face, raised round
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
 Then descend on steep N.W. slope. 250 ft. to
 Bottom of ravine, spring branch 3 ft. wide 4 ins. deep
 drains 8%. ascend. 20 ft. to
 Set a gray sandstone 25 x 7 x 5 ins. 19 ins. in ground
 for cor. of sec. 13, 14, 23, and 24 marked with 3
 notches on Sand 1 notch on Edge, raised round
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
 Land mountainous
 Soil, clay, stony and loam, 2nd and 3rd rates
 No timber.
 Mountainous land 5.000 chs

S. 89° 57' E. on a random line bet. secs. 13 and 24

Set turf 1/4 sec. cor.

Intersect E. bdy. of T. p. 21 M. S. of the cor. B. secs. 13,
 18, 19, and 24. which is a sandstone 5 x 10 x 6 ins.
 above ground marked and situated as de-
 scribed by surveyor general.

Then we are

S. 89° 54' N. on a line bet. secs. 13 and 24.

On descending land 125 ft. to

- Bottom of ravine drains S. 30° N. ascend
 Top of abrupt ascent, then across flat topped
 ridge, bearing N. E. and S. N. E. 200 ft. above sec. cor.
 Set a gray sand stone 17 x 9 x 7 ins. 12 ins. in
 ground for 1/4 sec. cor. marked 1/4 on N. face,
 raised round of stone 2 ft. base 1 1/2 ft. high
 N. of cor. pits impracticable.
 Abrupt descent from flat topped ridge, about 400 ft. to

Subdivision of T 7 N, R. 5 E. - Continued.

79.00	Bottom of ravine, drains S.W. also spring branch 3 ft. wide 4 ins. deep, ascend 10 ft. to The cor. sec. 13, 14, 15, 16, and 24, Land mountainous Soil stony and loam, 3 rd rate No timber. mountainous land 86.30 chs.
80.30	N 89° 47' W. bet sec. 13 and 14. Over ascending land. about 100 ft. to Top of spur, projects S.E., descend. 40 ft. to Bottom of ravine, drains S.E. ascend. 270 ft. to Top of high spur, projects S.E. also into quaking asp and pine timber same density descend. 200 ft. to ravine.
11.00	Sit a gray sandstone 16 x 11 x 7 ins 11 ins in ground for 1/4 acre cor. marked 1/4 on W. face, surrounded by stone 2 ft. base 1 1/2 ft. high 1 1/2 ft. cor. Pits imperceptible A pine 14 ins diam. base N. 47° E. 152 chs. dist. marked 1/4 S. 13 B. T.
14.00	A pine 24 ins. diam. base N. 45° W. 49 chs. dist. marked 1/4 S. 14 B. T.
32.00	Bottom of ravine drains S.E., also lean timber, parallel to gulch. ascend. 450 ft. to
40.00	Sit a gray sandstone 28 x 9 x 5 ins 21 ins in ground for cor. of sec. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edge same mound of stone 2 ft. base 1 1/2 ft. high 1 1/2 ft. cor. Pits imperceptible. This cor. stands on top of spur Land mountainous Soil; clay and gravelly loam, 3 rd rate Quaking asp and pine timber 1500 chs. mountainous land 86.00 chs.
47.00	N 89° 54' E. on a random line bet sec. 12 and 13 sit timber 1/4 acre cor.
50.00	Intersection S. body of Sp. 6 1/2 Ms. S. of cor. of sec. 7, 12, 13, and 14. which is a sandstone 5 x 9 x 4 ins above ground marked and witnessed as described by surveyor general.
50.25	There are two S 89° 51' W. on a true line bet sec. 12 and 13

Subdivision of 5.7 N. R. 5 E. - Continued

	On ascending land. 75 ft. to Top of divide between Lost Creek and Bear River. drainage, bears N and S. ascends 300 ft. to mine.
6.00	Wagon road, bears N and S.
33.00	Bottom of ravine, drains S. N. ascend. 250 ft. to spur
40.12	Set a gray sand stone 18x3x6 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raised round of stone 2 ft. base 1 1/2 ft. high N. cor. Pitt impracticable
50.00	Spur, projects S., ascends 175 ft. to
60.00	Bottom of ravine, drains S. 15° E., ascend 250 ft. to
80.25	The cor. of secs 11, 12, 13, and 14. Land mountainous Soil, clay, stony and loamy, 2nd and 3rd rates. No timber mountainous land 80.25 chs.

	N. 8° 47' W. bet. sec. 11 and 12.
	On descending land. 200 ft. to
20.00	Bottom of ravine, drains S. E. ascend 500 ft. to ridge
40.00	Set a gray sand stone 17x9x5 ins, 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face raise round of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitt impracticable.
46.00	Ridge, divide between Lost Creek and Bear River drainage, bears E and N. descend 50 ft. to
50.00	Head of draw, drains E. ascend. 40 ft. to
65.00	Top of spur projects E. descend 175 ft. to sec. cor.
67.40	Wagon road bears E and N.
80.00	Set a gray sand stone 24x10x5 ins. 18 ins in ground for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edges; raise round of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitt impracticable. Land mountainous Soil, clay, gravel and loamy, 2nd and 3rd rates No timber mountainous land 80.00 chs

	N. 8° 51' W. on a random line N.W. sec. 1 and 12.
40.00	Set temp 1/4 sec. cor.
80.20	Intersect E. bdy. of Twp. 4 1/2 Mr. S. of the cor. of secs. 1, 2, 7, and 12, which is a sandstone 5x12x4 ins

Subdivision of T.7 N., R.5 E. — Continued

- above ground, marked and situated as described by surveyor general.
- Three or more
 $389^{\circ}49' \text{ N}$. in true line betw sec 1 and 12.
 On ascending land, 12.5 ft. to
 Top of ridge bearing N. 10° E. and S. 21° . ascnd 170 ft to
 Head of draw, drains N. around.
 Wagon road, bears N. 21° and S. E.
 40.1.0. Set a gray sandstone $14 \times 8 \times 6$ ins 9 ins in
 ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N face
 raise mound of stone 2 ft base $1\frac{1}{2}$ ft high
 N. of cor. Pits impracticable.
 54.0.0. Thence along N. slope, 75 ft abov draw,
 Descnd on N. slope 50 ft to
 Bottom of draw, drains N. E. ascnd 80 ft to
 8.0.2.0. The cor. of sec 12, 11, and 13.
 Land mountainous.
 Soil, clay, stony and loam, 2nd and 3rd rates.
 No timber, mountainous land 80.20 ins.

September 27, 1897.

- September 28, 1897; N. $0^{\circ}4' \text{ N}$ on a random line betw sec 12, 35.
 Set tump $\frac{1}{4}$ acre cor.
 8.0.3.0. Intersect the N. body of Twp. 7 Mts N. of cor. of sec. 12, 35,
 and 36, established by us Sept. 24.
 Three or more
 $5^{\circ}0' \text{ E}$ on a true line betw sec 1 and 2.
 On ascending land, 90 ft. to
 Top of ridge, bears E. and N. abrupt descent 300 ft to bottom
 Wagon road, bears E and N.
 37.0.0. Spring branch 10 ins wide, 4 ins dep, also bottom
 of cañon drains E., ascnd 300 ft to sec. cor.
 40.3.0. Set a red sand stone $17 \times 12 \times 5$ ins, 12 ins in
 ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face,
 raise mound of stone 2 ft base $1\frac{1}{2}$ ft high
 N. of cor. Pits impracticable
 75.0.0. Wagon road, bears N. E. and S. 21° .
 8.0.3.0. The cor. of sec. 12, 11, and 13.
 Land mountainous.
 Soil, clay and gravelly loam, 2nd and 3rd rates.
 No timber, mountainous land 80.20 ins.

Subdivision of T. 7 N., R. 5 E. - Continued

September 28, 1897: At the cor. of secs. 2, 3, 34, and 35 on S. bdy. of Tp. which is a cobble stone 5x8x6 in above ground, properly marked and witnessed, we set off $41^{\circ} 17' N$ on the lot line and $27^{\circ} 6' E$ on the decl. arc of one of the instruments and at 8^h 0^m a.m. L.M.T. determine a true meridian with the solar.

Thence we run

$N 0^{\circ} 5' W$ bet. secs. 34 and 35

On ascending land, through small quarrying asp timber.

- 200 Thence along E. slope 20 ft. above sec. cor.
- 2100 Thence descended on N.E. slope, 220 ft. to spring branch
- +0.00 Set a gray quartzite stone 20x11x6 ins. 15 ins. in ground for 1/4 acre. cor. marked 1/4 on N. face
raise mound of stones 2 ft. base 1/2 ft. high N.
of cor. Pits impracticable
A quarrying asp, 6 ins. diam. max $N 10^{\circ} E$ 15 ft.
distr. marked 1/4 S. 35 B.T.
- A quarrying asp 8 ins. diam max N. 44 ft.
distr. marked 1/4 S. 34 B.T.
- +1.00 Spring branch 2 ft. wide 1 in. deep, drains E. thence
along E. slope.
- 48.00 Spring branch 1 ft. wide 1/2 in. deep, drains E. ascends 5 ft.
- 53.00 Spring, projects E. descended 40 ft. W
- 57.40 Bottom of ravine, spring branch, 4 ft. wide 4 ins.
deep, drains E. ascended 100 ft. W
- 65.00 Spring, projects E. descended 40 ft. W
- 70.50 Bottom of ravine, drains S. 60° E. abrupt ascent.
Also clear timber, parallel to ravine.
- 8.000 Set a gray quartzite stone 15x11x9 ins. 10 ins. in
ground for cor. of secs. 26, 27, 34 and 35, marked
with 1 notch on S. and 2 notches on E. edges,
raise mound of stones 2 ft. base 1/2 ft. high
N. of cor. Pits impracticable, 150 ft. above ravine
land and mountainous
- Soil: clay, stony and gravelly loam, ^{and 3rd and 4th rates}
Timber, quarrying asp 7050 chs.
- Mountainous or heavily timbered land 8000 etc.
- East on a random line bet. secs. 26 and 35
- +0.00 Set temp 1/4 sec. cor.

Subdivision of T.7 N., R.5 E. - Continued

- 80.15 Intersect N. and S. line 90°s. W. of the cor. of sec.
25, 26, 35, and 36
Thus my run
N. $89^{\circ}56'W.$ on a true line between 26 and 35.
On abruptly descending land, through scattering
pine timber, 200 ft. to
- 800 Branch of Lost Creek 15 ft. wide 1 ft. deep, also
bottom of cañon, drains S.Lean timber parallel
to creek. abrupt ascent about 750 ft. to spur
- +0.074 Set a gray sandstone 20x9x6 ins 15 ins. in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise
round of stone 2 ft. base 1 1/2 ft. high N.
1/4 cor. Pitts impracticable
- 69.00 Top of spur, projects $S.25^{\circ}E.$ descendingly 75 ft. to
- 80.15 The cor. of secs 26, 27, 34, and 35.
Sand mountainous
Soil; clay, stony and loam. 3rd and 4th ratios
Scattering pine timber 800 chs.
Mountainous land 80.15 chs.
-
- N $0^{\circ}5'37''W.$ bet. secs. 26 and 27.
On ascending land. 175 ft. to
- 17.00 Top of ridge, bears N. $70^{\circ}W.$ and $S.70^{\circ}E.$ descendingly 30 ft. to
Enter pine and quaking asp timber, parallel to ridge
- 4000 Set a gray quartzite stone 20x15x9 ins 15 ins in
ground for 1/4 sec. cor. marked 1/4 on N. face,
raise round of stone 2 ft. base 1 1/2 ft. high
N. Pitts impracticable
A quaking asp 10 ins diam, bears $S.24^{\circ}E.$, 50 ft. dist.,
marked 1/4 $S.26^{\circ}B.T.$
A quaking asp 8 ins diam, bears $W.$ 90 ft. dist
marked 1/4 $S.27^{\circ}B.T.$
- 75.00 Bottom of ravine, spring branch 5 ft. wide + ins deep
drains $S.60^{\circ}E.$ Also lean timber, abrupt ascent 50 ft. to
- 8000 Set a gray quartzite stone 15x11x9 ins. 10 ins in
ground for cor. of secs. 22, 23, 26, and 27, marked
with 2 notches on S. and E. edges, raise round
of stone 2 ft. base 1 1/2 ft. high N. Pitts impracticable.
Sand-mountainous
Soil, clay, and gravelly loam, 2nd and 3rd ratios
Pine and quaking asp timber 57.50 chs.
Mountainous or heavily timbered land 80.00 chs.

Subdivision of T.7 N., R.5 E.-Continued.

- 2.8956° E. on a random line between 23 and 26.
 4.000 Set limb $\frac{1}{4}$ sec. cor.
 7.9.90 Intersection and S-line 5 miles N of cor. faces 23, 24, 25, and 26.
 Then in line
 N. 89° 47' V. on a true line between 23 and 26.
 On ascending land, 170 ft to
 Branch of Lost Creek, 12 ft wide 10 ins deep, also bottom
 of cañon, drains S. ascend. 270 ft to
 Spur, projects S.E. descend. 100 ft to
 Bottom of gulch, drains S. ascend. 200 ft to
 Set a gray sand stone $20 \times 13 \times 7$ ins. 15 ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised mound
 of stone 2 ft. base $\frac{1}{2}$ ft high N. of cor. Pitt impracticable
 5.000 Spur projects S. descend. 100 ft to
 6.000 Bottom of ravine, drains S. ascend 70 ft to
 Spur projects S. descend. 70 ft to
 The cor. of secs 27, 23, 26, and 27.
 Sand mountainous
 Soil, clay, stony, and gravelly loam, 3rd and 4th rates.
 No timber.
 Mountainous land 7.9.90 chs.

- N. 0° 5' W. bet secs 22 and 23 ...
 On ascending land 275 ft to
 23.00 Top of ridge, bears N.W. and S.E. descend about 550 ft to
 24.00 Center quaking timber bears N.W. and S.E.
 4.000 A quaking asp, 10 ins diam, for $\frac{1}{4}$ sec. cor, was marked
 $\frac{1}{4}$ S. 22 on N. and S. 23 on E. sides, from which
 A quaking asp 8 ins diam bears E. 29 1/4 ft dist.
 marked $\frac{1}{4}$ S. 23 B.T.
 A quaking asp, 10 ins diam, bears S. 78° 7' R. 16 1/4 ft dist.
 marked $\frac{1}{4}$ S. 22 B.T.
 8.000 A quaking asp 12 ins diam, for cor. of secs. 14, 15, 22, and
 23, was marked
 T.7 N., S. 14 on N.E.
 R.5 E. S. 23 on S.E.
 S. 22 on S.W. and
 S. 15 on N.W. sides; with 3 notches on S. and
 2 notches on E. sides, from which
 A quaking asp 10 ins. diam, bears N. 38° E. 3 3/4 ft
 dist. marked T.7 N., R.5 E. S. 14 B.T.
 A quaking asp 8 ins diam, bears S. 21 E. 19 1/4 ft

Subdivision of T.7 N., R.5 E. - Continued

dist. marked T.7 N., R.5 E., S.23 B.T.

A quarrying asp. lies diam. near S.76° N. 32 ft. 6 in.

dist. marked T.7 N., R.5 E., S.22 B.T.

A quarrying asp. lies diam. near N.67° N. 26 ft. 6 in.

dist. marked T.7 N., R.5 E., S.15 B.T.

Land mountainous

Soil, stony and loam, 3rd ratio

Quarrying asp. timber 56 chs.

September 28: At this cor., we set off 220' S. on the decl. arc of one of the instruments, and at 12th noon m.l.m.t. observed the sun on the meridian, the resulting lat. is 41° 26' N.

Mountains or heavily timbered land 8000 chs.

S.89° 4' E. on a random line bet. sec. 14 and 23.

4000 Set temp 1/4 sec. cor.

7.9.80 Distances N. and S. line 60 ft. N. of cor. sec. 13, 14, 23, and 24

There are none

N.89° 13' N. on a true line bet. sec. 14 and 23

On ascending land. 75 ft. to

8.0.0 Top of spur projects S.15° N. ascend 60 ft. to

12.50 Bottom of gulch, spring branch, 2 ft. wide 2 ins. dup., drains S.15° N. ascend. 175 ft. to

30.00 Top of spur projects S.40° N. ascend 350 ft. to cor.

3.9.90 Set a gray quartzite stone 18x10x8 ins. 1/2 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Patr impracticable.

58.50 Spring branch, 5 ft. wide 2 ins. dup., also bottom of gulch, drain S.31°, there along S. slope.

61.00 Branch of Lost Creek, 10 ft. wide 10 ins. dup., also bottom of cañon, drain S.50° E. ascend 175 ft. to cor.

69.00 Spring branch, 2 ft. wide 1 in. dup., drains N.E. Also Enter timber, quarrying asp., near N.E. and S.E.

7.9.80 The cor. of sec. 14, 15, 22, and 23

Land mountainous

Soil, clay, stony and loam, 2nd and 3rd ratios

Quarrying asp. timber 10.80 chs

Mountainous or heavily timbered land and 7980 chs

N.89° 5' N. bet. sec. 14 and 15.

On descending land, through quarrying asp. timber 15-20 ft. higher

Subdivision of T. 7 N., R. 5 E. - Continued

- 4.00 Lean, quaking asp timber was N.W. and S.E.
- .000 Branch of Lost Creek, otherwise wide in deep, also bottom elevation, drain S. 6° E. ascend abruptly.
- 4.00 Set a gray quartzite stone 18x13x9 ins 12 ins in ground for 1/4 acre cor. marked 1/4 on N face, raised mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
- 5.200 Thence less abrupt ascent, along N. slope. 450 ft.
- 8.000 Set a red sand stone 20x8x6 ins 15 ins in ground for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edges, raised mound of stone 2 ft. base 1 1/2 ft. high, 1/4 of cor. Pits impracticable
- Land mountainous
Soil, clay, stony and gravelly loam 2nd and 4th rates
Quaking asp timber 4 1/2 chs.
Mountainous or heavily timbered land 8.000 chs.
-
- S 89° 37' E on a random line, bet. secs. 11 and 14.
- 4.000 Set temp 1/4 acre cor.
- 8.000 Intersect N. and S. line 25 ft. S. of cor. of secs 11, 12, 13 and 14.
- Thence no run
- S 89° 58' W on a true line bet. secs. 11 and 14.
- On ascending land, 200 ft. to
- 19.00 Top of ridge, near N. and S. discord 250 ft. to
- 3820 Bottom of ravine, spring branch, 400 ft. wide 3 ins deep
drains S. abrupt ascent, 250 ft. to ridge
- 4.001 Set a gray cobblestone 12x8x6 ins 8 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
- 6.000 Top of ridge, near N. and S. discord 250 ft. to
- 8.002 The cor. of secs. 10, 11, 14, and 15.
- Land mountainous
Soil, clay and gravelly loam, 2nd and 3rd rates.
No timber
Mountainous land: 8.002 chs.
-
- N. cor. 7. N. int. secs. 10 and 11.
- On ascending land, along N. slope. 100 ft. to
- 27.00 Thence gentle descent along N. slope.
- 4.000 Set a gray sandstone 14x10x6 ins. 8 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raised mound

Subdivision T.7 N, R.5 E. - Continued

	of stone 2 ft base 1½ ft high N. of cor. Pitt impracticable
48.00	Head of hollow, drains S.W. ascnd. 100 ft. to
54.00	Ridge divides between Lost Creek and Bear River drainage, along wagon road, bear E&W. descnd.
50.00	Set a gray sand stone 23x19x11, lies 17 ins in ground for cor. of secrs 2, 3, 10, and 11, marked with 5 notches on S and 2 notches on E edges raisemound of stone 2 ft base 1½ ft high N. of cor. Pitt impracticable, 175 ft below ridge Land-mountainous
	Soil, clay, stony and loam, 2 nd and 3 rd rates. No timber
	Mountainous land 8000 chs.

September 28:	At 4 h oom p.m. I. M. F. we set off 41° 22' N on the lat arc, 2° 23' S. on the decl. arc of one of the instruments, and determine a true meridian with the solar, at the cor. of secrs 2, 3, 10, and 11
	Thunder rain
	N 89° 58' E on a random line betw secrs 2 and 11,
40.00	Set temp 114 sec. cor.
79.95	Entered N. and S. line 13 1/2 ls. N. of cor. of secrs 1, 2, 11, and 12
	Thunder rain
	N 89° 56' 31" E. betw line betw secrs 2 and 11
	Over ascending land, along N. slopes. 60 ft. to a wagon Road, bears, N. E. and S. W.
4.00	Spur projects N. descnd. 60 ft. to
10.00	Bottom of gulch, drains N., ascnd. 100 ft. to
20.00	Spur projects N. descnd. 100 ft to
27.00	Set a gray sandstone 14x10x4 ins. 9 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitt impracticable.
39.97 1/2	Bottom of gulch, drains N. E. ascnd. 75 ft to
70.00	Spur, projects N. E. descnd 40 ft. to
79.95	The cor. of secrs 2, 3, 10, and 11.
	Land-mountainous
	Soil, clay, gravelly, and loam, 2 nd and 3 rd rates
	No timber
	Mountainous or heavily timbered land 79.95

N. 89° 57' N. on a random line betw secrs 2 and 3.

Subdivision of T. T. N. R. S. E. - Continued.

4.00	Set a tip $\frac{1}{4}$ sec. cor.
7.9.98	Intersection N. bdy. of T. T. N. R. S. E. W. of cor. of sec. 2, 3, 34, and 35, established by us, Sept 24.
	Three worn
	South on a true line bet. secs 2 and 3.
	On descending land. 200 ft to
16.00	Bottom of ravine, spring branch 4 ft. wide 3 ins. deep drains E. ascend. 320 ft. to ridge
39.98	Set a gray sandstone 30 x 8 x 5 ins., 7.7 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, raised mound of stone 2 ft base 1.5 ft high N. of cor. Pits impracticable
45.00	Top of ridge, near E. and N. descended. soft to
66.00	Bottom of ravine, drains E. ascend. 120 ft to
72.00	Spur, projects E. descended. 75 ft to
77.00	Bottom of gulch, drains N. E. ascend. 30 ft to
79.98	The cor. of secs 2, 3, 10, and 11 - Land mountainous Soil, gravelly loam, 2nd rate. No timber. Mountainous land 79.98 chs.

September 28, 1897.

2.00	September 29, 1897. From the cor. of secs. 3, 4, 33, and 34 on S. bdy. of T. T. N. R. which is a gray cobble stone 5.4 x 2 x 6 ins above ground, properly marked and inturned, no run
2.00	N. 005° W. bet. secs 3, 3 and 34.
3.00	On ascending land. 40 ft to
3.00	Top of ridge, near N. E. and S. W. 250 ft to
3.50	Enter quarry asp timber, near N. E. and S. W.
27.00	Bottom of ravine, drains S. W. ascend 175 ft. to
3.00	Leave quarry asp timber, bearing N. E. and S. W.
37.00	Top of spur, projects S. 5° 37' N. also enter quarry asp, parallel to spur, descend. 200 ft. to ravine
40.00	A quarry asp 1.0 ins. diam. for $\frac{1}{4}$ sec cor. in marked $\frac{1}{4}$ S. 33 on N. S. 34 on E. face from which a a quarry asp 12 ins. diam, bears S. 80° E. 34 chs. dist. marked $\frac{1}{4}$ S. 33 4 B. T.
	A quarry asp 1 ins. diam, bears N. 17° 51' N. 33 chs. dist. marked $\frac{1}{4}$ S. 33 B. T.
53.00	Bottom of ravine, drains S. W. ascend 170 ft. to spur

Subdivision of 5:74, @ 5 E. - Continue.

- 66.05
70.00
76.00
80.00
- Leave quarry as timber near N.E. and S.W.
Spur, projects S.W. around, 150 ft to
Bottom of ravine, drains S. 30° W., then around along
spur projecting S. around 60 ft to
Set a gray sand stone 15 x 10 x 5 ins. 1 ins in ground
for cor. of sec. 27, 28, 33, and 34 marked with
trioted on S. and 3 rivets on E. edges were
mound of stone 2 ft. base 1/2 ft. high 1/2 ft.
cor. Pitt impracticable.

Land-mountainous.

Soil, stony and loamy, 5th rate.

Quarry as timber 6250 cu.

September 29; At this cor. we set off 491 1/2 ft on the
lat. arc, 2° 38' S. on the decl. arc of one of the instruments
and at 7:30 am. I was unable to determine a true me-
ridian with the solar.

Mountainous or heavily timbered land 5700 cu.

- 40.00
79.98
- East on a random line, w. sec. 27 and 34.
Set knoll 1/4 mc. cor.
Intersect N and S line 8 Mr. S. by cor. of sec. 26, 27, 34,
and 35.
- Then in ravine
\\$895 7 1/4 ft on a line line int. sec. 27 and 34.
On descending land. 70 ft to
15.00 Bottom of ravine, drains S. 60° E. around 250 ft. 1 ins.
39.99 Set a gray quartzite stone 14 x 10 x 6 ins. 9 ins in ground for
1/4 rec. cor. marked 1/4 on N. face, raise mound of stone
2 ft base 1/2 ft high N. of cor. Pitt impracticable.
- 43.00 Top of ridge near N and S. descend. 360 ft to ravine
47.00 Enter quarry as timber, near N and S.
71.00 Leave quarry as timber near N and S.
76.05 Bottom of ravine, drains S. 35° W. around 200 ft.
79.98 The cor of sec. 27, 28, 33, and 34.

Land-mountainous

Soil, clay, stony and loamy 5th rate.

Quarry as timber 2350 cu.

Mountainous or heavily timbered land 7945 cu.

N 0° 5' W. but, sec. 27 and 35.

On ascending land. 300 ft to

Top of ridge, near N. 20° E. and S. W. around 500 ft.

Subdivision of T. 7 N., R. 5 E. - Continued

- 4000 Bottom of ravine, drains S.E. ascend 60 ft. to top
- 4000 Bed a gray sand stone 16x6x6ins. lies in ground
In the sec. cor. marked 114 on N. face, same name
Bottom of high 12 ft. high N. of cor. P. Steinhardt
4000 Top of a spur projects S.E. descend 50 ft. to
4000 Bottom of draw drains S.E. ascend 110 ft.
73.00 Top ridge near N. end S.E. descend, also with quartz
asp and pine timber, parallel to ridge drained 110 ft.
4000 A quarry asp bins diam. for cor. faces, 21, 23, 27 and 25
in marked
T. 7 N., S. 22 on N. E.
R. 5 E. S. 27 on S. E.
S. 28 on S.E. and
S. 21 on N. sides; with scratches out and 3
notches on E. sides from which
A quarrying asp 5 ins. diam. bears N. 27° E. 15 ft.
dist. marked T. 7 N., R. 5 E., S. 22 B.T.
A quarrying asp 7 ins diam. bears N. 45° E. 25 ft.
dist. marked T. 7 N., R. 5 E., S. 27 B.T.
A quarrying asp 10 ins diam. bears S. 63° N. 35 ft.
dist. marked T. 7 N., R. 5 E., S. 28 B.T.
A quarrying asp 9 ins diam. bears N. 71° N. 17 ft.
dist. marked T. 7 N., R. 5 E., S. 21 B.T.
Land mountainous
Soil clay part stony and loamy 3rd and 4th ratios
Draining asp and pine timber 75 ft. elev.
Mountainous or heavily timbered land 8000, etc.

- N 49° 57' E on a random line bet. secs. 22 and 27.
4000 Bed thick 1/4 inc. cor.
8000 Intersect N and S line 9 the N. of cor. sec. 22, 23, 25 and 27.
There are none
N 49° 54' N on a true line bet. secs. 22 and 27.
Cor. descending land 75 ft. to
4000 Bottom of ravine; Spring branch 5 ft. wide 4th ratio
drains S.E. ascend; also with pine and
quartz asp timber, parallel to ravine about 110 ft.
2100 Spur projects N. E. descend 75 ft. to
35.00 Ravine spring branch 2 ft. wide 4th ratio, drains N. E. ascend
- 4000 Bed a gray sandstone 15 x 8 x 7, ius. 10 ins in ground
In 1/4 inc. cor. marked 114 on N. face, same
name of stone 2 ft. base 1 ft. high N. of cor.

Subdivision of T.7 N, R.5 E. - Continued

	Pits impracticable.
	A quarry asp. 11 ins. diam. bears N. 37° E. dist. marked 1/4 S. 22 B. S.
	A quarry asp. 7 ins. diam. bears S. 64° E. dist. marked 1/4 S. 27 B. S.
8.0.08	The cor. of secs. 21, 22, 27, and 28. Land mountainous Soil, clay, stone and gravelly loam, 2nd and 3rd nates Pine and quarry asp. timber 70.08 Mountainous or heavily timbered land 80.08 che.
	N. 65° 4' W. bet. secs. 21 and 22.
19.00	On descending land, through pine and quarry asp. timber Bottom of ravine, spring branch 4 ft. wide 4 ins. deep drains S. 75° E., also bear. timber parallel to ravine around 40 ft. cap.
40.00	Sit a gray granite stone 14 x 10 x 10 ins 9 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, surrounded of stone 2 ft. base 1 1/2 ft. high 3 1/2 cor. pits im- practicable
45.00	Top. of spur, projects N. 70° E., ascend .50 ft.
51.00	Bottom of swale, bears E. ascend .100 ft. to
75.00	Top of ridge, bears S. 60° E. and S. 70° W. descend, also near pine timber parallel to ridge around 40 ft.
80.00	Sit a gray sand stone 16 x 10 x 8 ins 11 ins. in ground for cor. of secs. 15, 16, 21, and 22, marked with 3 notches on S. and E. edge, surrounded of stone 2 ft. base 1 1/2 ft. high 3 1/2 cor. pits impracticable. A pine 10 ins. diam bears N. 32° E. 48 ft. dist. marked S. 7 N. R. 5 E. S. 15 B. S.
	A pine 10 ins. diam bears N. 45° E. 44 ft. dist. marked S. 7 N. R. 5 E. S. 22 B. S.
	A pine 8 ins. diam bears N. 45° W. 10 ft. dist. marked S. 7 N. R. 5 E. S. 21 B. S.
	A pine 8 ins. diam bears N. 41° W. 47 ft. dist. marked S. 7 N. R. 5 E. S. 16 B. S.
	Land mountainous Soil clay, stone and loam 2nd and 3rd nates. Timber pine and quarry asp. 140 ins, pine 57.00 Mountainous or heavily timbered land 80.00 ins
400.0	S 89° 59' E. on a random line, bet. sec. 15 and 22 Set. temp. 114 sec. cor.

Subdivision of T. 7 N., R. 5 E. - Continued

- 79.97 Intersect N. and S. line 10th N. S. of cor. of secs. 14, 15, 21, and 22.
There we run
S 89° 57' W. on a true line betw. secs. 15 and 22.
Over descending land, through quaking asp timber.
- 39.98 1/2 Set a gray quartzite stone 20x12x9 ins. 15 ins. in ground
for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone
2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
A quaking asp 12 ins. diam. max. N 16° 7' N. 2 1/2 ft.
dist marked 1/4 S. 15 B. T.
A quaking asp 10 ins. diam. max. S. 90° E. 97 ft. dist
marked 1/4 S. 22 B. T.
- Quaking asp timber is gradually replaced by pine
The cor. of secs. 15, 16, 21, and 22, about 500 ft. above cor. 1 mile E.
Sand-mountainous
Soil, granular loam, subdrift.
Pine and quaking asp timber
Mountainous or heavily timbered land 7 A. 97 chs.
-
- September 29: At the cor. of secs. 15, 16, 21, and 22, we
set of 243 S. on the decl. are 2 of the instruments,
and at 15^o 50' m. in. dist., obsen the sun on the meridians,
the resulting lat. is 41° 20' N.
- There we run
N. 005° W. betw. secs. 15 and 16.
- Over descending land, through pine timber, 450 ft. to
34.50 Branch of Duck Creek, 10 ft. wide 1 ft. deep, also bottom
of cañon, diam. S 70° E. Also lean pine timber
parallel to creek, ascend 275 ft. to spur.
- 41.00 Set a gray sand stone 14x10x8 ins. 9 ins. in ground
for 1/4 acre cor. marked 1/4 on N. face raise
mound of stone 2 ft. base 1 1/2 ft. high N.
of cor. Pits impracticable
- 56.00 Top of spur, projects S. E. there quite descent along S.
slope. Also some quaking asp timber, max. N. 7° and S. 6°.
- 8.0.00 Set a gray quartzite stone 24x15x11 ins. 15 ins. in
ground for cor. of secs. 9, 10, 15, and 16, marked
with 4 notches on S and 3 notches on E sides
raise mound of stone 2 ft. base 1 1/2 ft. high N.
of cor. Pits impracticable, 60 ft. below spur.
Tree too small to mark.
- Sand-mountainous
Soil clay, stony and granular loam, red soil and yellow soil.

Subdivision of T.7 N, R.5 E. - Continued

Timber, pine 34, 56 chs. quarrying asp. 2400 chs
Mountainous or heavily timbered land 8000 chs

N. 8° 57' E. on a random line bet. secs. 10 and 15.

Sit. steep $\frac{1}{4}$ sec. cor.

Intersection N and S line 7 miles N of cor. faces 10, 11, 14, and 15
These are now

West on a true line bet. secs. 10 and 15.

On descending land, 250 ft. to

Bottom of ravine, spring branch 8 ft. wide 4 ins. deep
drains S. around 300 ft. to

Top of ridge, base N 30° W and S. descend 300 ft. to ravine

Set a red sand stone 20x13x6 ins. 15 ins. in ground for
1/4 sec. cor. marked 1/4 on N. face, raise mound of stone
2 ft. base 1/2 ft. high N of cor. Pits impracticable

Bottom of ravine, drains S. around, 100 ft. to

Top of spur, projects S. descend 175 ft. to

Bottom of ravine, spring branch 8 ft. wide 5 ins. deep
drains S. around, also with quarry asp. parallel to ravine.

The cor. faces 9, 10, 15 and 16; 150 ft. above ravine
Land mountainous

Soil, clay, stony and gravelly loam $\frac{2}{3}$ and $\frac{1}{3}$ ratio;
Quarry asp. timber 1500 chs

Mountainous or heavily timbered land 8000 chs.

N 0° 05' W. bet. secs. 9 and 10.

On descent along E slope through quarry asp. timber

Leave quarry asp., base N.W. and S.E.

Bottom of ravine, spring branch 8 ft. wide 4 ins. deep, drains
S 30° E. 100 ft. below sec. cor., around 300 ft. to ridge

Set a gray granite stone 15x9x7 ins. 10 ins. in ground for
1/4 sec. cor. marked 1/4 on N. face, raise mound of stone
2 ft. base 1/2 ft. high N. of cor. Pits impracticable

Top of ridge base N 30° W. and S 40° E. descend 75 ft. to

Set a gray lime stone 24x9x5 ins. 18 ins. in ground for
cor. faces 3, 4, 9, and 10, marked with 5 notches on S and 3
notches on E. edges, raise mound of stone 2 ft. base
1 1/2 ft. high N. of cor. Pits impracticable.

Land mountainous

Soil, clay and gravelly loam, $\frac{2}{3}$ and $\frac{1}{3}$ ratio.

Quarry asp. timber 3000 chs.

Subdivision of T.7 N., R.5 E. - Continued.

Mountainous or heavily timbered land 8.00 chs.

East on a random line between 3 and 10.

4.00 Set true $\frac{1}{4}$ sec. cor.

8.01.0 Intercept N. and S. line of the N. of cor. of secs. 2, 3, 10, and 11.

Thence westward

N. $89^{\circ}59'W.$ on a true line between 3 and 10

On descending land, 25 ft. to

3.00 Bottom of swale, drains N. & ascend 150 ft. to

18.00 Ridge, divide between Lost Creek and Bear River drainage,
also wagon road from N.W. and S.E. descend 150 ft. to

37.00 Head of ravine, drains S. ascend 70 ft. to spur.

40.05 Set a gray sandstone 12x8x8 ins. 8 ins in ground for $\frac{1}{4}$
cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

43.00 Top of spur projects S. descend 150 ft. to

60.00 Bottom of ravine, drains S. $15^{\circ}E.$ ascend 250 ft. to

80.10 The cor. of secs. 3, 4, 9, and 10

Land mountainous

Soil clay, stony and loam 2^{nd} and 3^{rd} rates.

No timber.

Mountainous land 8.01.6 chs.

September 29: At this cor. we set off $4^{\circ}2'N.$ on the lat. arc, $2^{\circ}46'8''$

on the decl. arc of one of the instruments, and at 4^h 00^m pm M.L.T.

determine a true meridian with the solar.

N. $89^{\circ}57'W.$ on a random line between 3 and 4.

4.00 Set true $\frac{1}{4}$ sec. cor.

8.00.8 Intercept N. bdy. of Tp 18 W. $\frac{1}{4}$ N. of cor. of secs 3, 4, 33, and 34.
Established by us Sept. 24.

Thence westward

S. $89^{\circ}3'W.$ on a true line between 3 and 4.

On descending land, 15 ft. to

2.00 Swale, drains N.W. ascend 270 ft. to

29.00 Ridge, divide between Lost Creek and Bear River

Also wagon road, bear E. and N. descend 200 ft. to ravine

40.08 Set a red sandstone 15x9x6 ins. 10 ins in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone
 $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

54.00 Bottom of ravine, drains S.E. ascend 175 ft. to

70.00 Spur, projects E. Thence continue on ascent along

Subdivision S. 7 N., R. 5 E.—Continued.

	E. slope 70 ft. to
80.08	The cor. faces 3, 4, 9, and 10. Sand mountainous Soil clay and gravelly base 2 nd and 3 rd native no timber mountainous land 80.08 circ
	September 29, 1897.
	September 30, 1897: From the cor. faces 4, 5, 32, and 33 on S. bdg. of Sp. which is a sand stone 9 x 4 x 6 ins above ground, perfectly washed and situated in sun
	N. 60° W. bet. acc. 32 + 33.
2.00	On arid land, through quarrying asp timber Leave quarrying asp timber base N. 80° E.
10.00	Top of ridge, 150 ft. above sec. cor. base N. 80° E. also into quarrying asp timber, p parallel to ridge, discord 175 ft. to
30.00	Bottom of ravine, base N. 80°, thence gentle ascent along E. slope.
40.00	Set a gray quartzite stone 15 x 12 x 6 ins 10 ins in ground for 1/4 sec. cor. marked 1/4 on N face, base round of stone 2 ft. 7 in. - 2 1/2 ft. high 1/2 of cor. Pits unpracticable. A quarrying asp 11 ins. diam base S. 67° E. 53° W. dist marked 1/4 S. 33 B.T.
	A quarrying asp 12 ins diam base S. 87° N. 58° W. dist marked 1/4 S. 32 B.T.
46.00	Top of spur projects N. E. discord 175 ft. to
58.00	Bottom of ravine, spring branch 2 1/2 in. wide 2 ins dip, drain N. E. ascend 50 ft to
68.00	Top of spur, projects E. discord 175 ft. to
84.00	Set a gray quartzite stone 21 x 12 x 9 ins. 15 ins in ground for cor. faces 2, 29, 30, 32, and 33. marked with 1 notch on 3 and 4 notches on 6 edges, base round of stone 2 ft. 7 in. 1/2 ft. high 1/2 of cor. Pits unpracticable. A quarrying asp 7 ins diam base N. 14° E. 77° W. dist marked S. 7 N. R. 5 E. S. 22 B.T.
	A quarrying asp 6 ins. diam. base S. 21° E. 10 ins. thick, marked S. 7 N. R. 5 E. S. 33 B.T.

Subdivision of T.7 N., R.5 E. - Continued.

A quarry asp 8 ins diam bears S $17^{\circ}W$ 5' 6" dist.
marked T.7 N., R.5 E. S.32 B.T.

A quarry asp 5 ins diam bears N $43^{\circ}W$ 6' 8" dist.
marked T.7 N., R.5 E. S.39 B.T.

Sand-mountainous

Soil clay, gravelly loam and stone 2nd, 3rd and 4th ratios
Quarry asp timber 67.00 chs.

Mountainous or heavily timbered land 8.000 chs.

September 30; At this cor. we set off 41° 18' N on the lat arc, 30° 2'
on the decl. arc of one of the instruments, and at 8:00 am, by
determine a true meridian with the solar.

East a random line bet. secs. 28 and 33.

4.000 Set temp 1/4 sec. cor.

8.010 Intersect N. and S. line 16' 6" N. of cor. faces. 27, 28, 33, and 34.

Thus we run

N. 84° 53' W on a true line bet. secs. 28 and 33.

On descending land, 50 ft. to

Bottom of gulch, drains S. ascend 250 ft. to

Top of ridge, bears N.E. and S.W. descend 200 ft. to

Gulch, spring branch, 1/4 mile wide 1 in deep drains S.W.
ascend 40 ft to spur.

Set a blue lime stone 14 x 8 x 6 ins 9 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise mound of
stone 2 ft base 1 1/2 ft. high N. of cor. Bits impracticable

4.5.10. Spur projects S.W. descend 300 ft to creek.

5.7.00 Blue Ridge. Branch of Lost Creek 10' 6" wide 1 ft. deep.
Also bottom of canon drain S. ascend. Also enter
quarry asp timber parallel to creek.

8.010 The cor. of secs. 28, 29, 32, and 33, 200 ft. above creek.

Sand-mountainous

Soil clay and stony loam, 3rd and 4th ratios

Quarry asp timber 23.10 chs.

Mountainous or heavily timbered land 8.010 chs.

N. 0° 6' W. bet. secs. 28 and 29.

On descending land through quarry asp timber 12.5 ft. irregular

Leave quarry asp timber, bearing E. and W.

9.00 Rain, spring branch 7' 6" wide 6 ins. deep, drains N. 6° E.

Subdivision of T. 7 N., R. 5 E. - Continued.

	ascend. 50 ft to
11.00	Sharp rocky spur projects S. ascend. 60 ft to
13.00	Blue Ridge Branch of Lost Creek 10 ft wide 6 ins also bottom of cañon, drains S.E. ascend. 276 ft
40.00	Set a red sandstone 15 x 9 x 6 ins 10 ins. in for 1/4 sec. cor. marked 1/4 on N. face, raised of stone 2 ft. base 1/2 ft. high 1/4 of cor. Pits imprac- ticeable. about 125 ft. above 1/4 sec. cor.
79.00	Head of draw, drains S.W. ascend.
81.00	Set a gray sand stone 20 x 8 x 6 ins 15 ins in ground for cor. face. 20, 21, 28 and 29, marked with notches on S and 4 notches on E edge. raised mound of stone 2 ft. base 1/2 ft. high 1/4 of cor. Pits impracticable. about 125 ft. above 1/4 sec. cor.
	Land mountainous
	Soil, clay, stone, and gravelly loam, ^{2nd and 3rd} ratios Quarry asp. timber 4, 5 chs.
	Mountainous or heavily timbered land 860 chs.

	S 89° 3' E on a random line bet. secs. 21 and 28
40.00	Set timber 1/4 sec. cor.
79.95	Intersection N. and S. line 18 ft. S. of cor. faces. 21, 22, 28, 29
	Thence up river
	S 89° 9' N. on a true line bet. secs. 21 and 28.
	On ascending land, through pine and quarry asp. timber 150 ft. to
20.00	Top of ridge near N. 10° W. and S 10° E., also lean timber nearly same as ridge. descend.
39.98	Set a red sand stone 18 x 12 x 6 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face raised mound of stone 2 ft. base 1/2 ft. high 1/4 of cor. Pits impracticable.
55.00	Bottom of ravine, drains S. 37.5° ft. below ridge around
58.00	Top of spur, projects S. ascend. 75 ft to
60.00	Bottom of ravine, drains S. ascend. 40 ft to
73.00	Spur, projects S. ascend. 75 ft to sec. cor.
79.00	Head of draw, drains S.W. continue slight descent.
79.98	The cor. of secs. 20, 21, 28, and 29.
	Land mountainous
	Soil, clay, stone, and gravelly loam ^{2nd and 3rd} ratios Pine and quarry asp. timber 2, 5, 6 chs.
	Mountainous or heavily timbered land 79.98 chs.

Subdivision of T.7 N, R.5 E. - Continued

	n. $5^{\circ} 6' N.$ bet. sec. 20 and 21.
	On ascending land. soft to
4.00	Top of spur projects S.W. descended, 100 ft. to
12.00	Bottom of gulch, drains S. $70^{\circ} N.$ also some quaking aspen timber bearing N. E. and S. $70^{\circ} N.$ around 125 ft. to
22.00	Top of spur, projects W. descended soft to
30.00	Bottom of gulch, drains S. $70^{\circ} N.$ ascended, 350 ft. to
40.00	Set a gray sand stone 18x11x9 ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1/2 ft. high N.E. cor. Pits impracticable. Two too small to mark.
+2.00	Thence more gradual ascent along S.W. slope also bear quaking aspen timber
8.00	Set a gray sandstone 15x13x11 ins. 10 ins. in ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S and 4 notches on E edges. raise mound of stone 2 ft. base 1/2 ft. high N.E. cor. Pits impracticable.
	Land mountainous
	Soil; clay, stone, gravel, and loam and sand and slate
	Quaking aspen timber 3000 ft. elev.
	Mountainous or heavily timbered land 8000 ft. elev.
	The sky is overcast and solar observations are impossible.
	N. $89^{\circ} 59' E.$ on a random line bet. sec. 16 and 21
4.00	Set stump 1/4 sec. cor.
8.00	Intersection and S line 16 ins. N of cor. of sec. 15, 16, 21, and 22.
	Thence we run
	N. $89^{\circ} 54' N.$ on a tree line bet. sec. 16 and 21.
	On gently ascending land along N slope, through pine timber. 150 ft. to top of ridge
4.00	A pine 14 ins. diam. for 1/4 sec. cor. we marked 1/4 S. 16 on N and S. 21 on S sides from which A pine 11 ins diam was N. $78^{\circ} N.$ 19 ft. dist marked 1/4 S 16 B.T.
	A pine 12 ins diam was S. 8 ft. dist. marked 1/4 S 21 B.T.
4.00	Lean pine timber, basswood and S.
5.00	Head of draw, drains N.E. continue ascent.
6.00	Top of ridge, bears N. $60^{\circ} N.$ and S. $60^{\circ} E.$ descended

Subdivision of T.7 N, R.5 E - Continued

8.006	The cor. of secs. 16, 17, 20 and 21, 200 ft. below ridge Sand mountainous Soil; clay, gravel and loam, 2 nd and 3 rd rates. Pine timber 4600 chs. Mountainous or heavily timbered land 8.006 chs.
13.00	N 0°6' W. in s. 16 and 17, Over ascending land. 200 ft. to Top of ridge, bears N. 70° W. and S. 60° E. dist. 350 ft. to east Enter pine timber, bears N.W. and S.E.
22.00	Branch of Lost Creek, 7 1/2 miles wide 4 ins. drift, also bottom of cañon, drain S. 50° E. also lean timber parallel to creek.
38.00	Set a gray quartzite stone 18 x 12 x 9 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 sec. N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitts impracticable
60.00	Span, 25 ft. above creek projects S.E., thence quite direct along E. side, also enter quarry asp. timber bears N. 70° S.E.
8.00	Set a gray sand stone 32 x 9 x 7 ins 24 ins in ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S and E edges raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitts impracticable A quarry asp. 8 ins. diam. bears N. 11° E. 16 ft. dist. marked T.7 N, R.5 E. S. 9 B.T. A quarry asp 6 ins. diam. bears S. 5° E. 27 ft. dist. marked T.7 N R.5 E. S. 16 B.T. A quarry asp 6 ins. diam. bears S. 20° W. 24 ft. dist. marked T.7 N. R.5 E. S. 17 B.T. A quarry asp 7 ins. diam. bears N. 85° W. 16 ft. dist. marked T.7 N, R.5 E. S. 8 B.T.
	Land mountainous Soil, clay, stone, gravel and loam, 2 nd and 3 rd rates Pine timber, 1600 chs. quarry asp 2000 chs. Mountainous or heavily timbered land 8.000 chs.
40.00	S. 89°54' E. on a random line N.W. sec. 9 and 16. Set limb 1/4 sec. cor.
80.04	Enter N. and S. line 9 1/2 ls. S. of cor. of secs. 9, 10, 15, and 16. Thus we run N. 89°58' W. on a true line N.W. sec. 9 and 16. Over ascending land, through quarry asp. timber 250 ft. to

Subdivision of T.7 N, R.5 E - Continued.

- 50.00 Bear quaking asp timber leaning N and S.
 15.00 Top of ridge bears N 25° W and S 25° E. ascend 225 ft. to
 31.00 Bottom of ravine, drains S. also spring branch 5
 ft. wide 3 ins. deep, drains S. ascend 100 ft. to apex
 40.00 Set a red sand stone 16 x 12 x 5 ins., 12 ins. in ground
 for 1/4 acre cor. marked 114 on N face raise
 mound of stone 2 ft. base 1 1/2 ft. high
 N. of cor. Pits impracticable.
 - 3.00 Top of spur, projects S. 15° E. ascend 90 ft. to
 5.00 Bottom of ravine, drains S 10° E. ascend 175 ft. to
 6.00 Top of ridge bears N. and S. descend 70 ft. to
 7.5.00 Bottom of ravine, spring branch 4 ft. wide 3 ins. deep
 drains S. also inter quaking asp timber parallel
 to gulch, ascend 75 ft. to
 8.0.01 The cor. of secs. 8, 9, 16, and 17.
 Land mountainous
 Soil, stony and loam, 3rd rate
 Quaking asp timber 15 chs.
 Mountainous or heavily timbered land \$0.04 chs.

- On 806' N. mt. secs. 8 and 9.
 On gently descending land, through quaking asp timber 75
 21.50 Bottom of ravine, spring branch 3 ft. wide 3 ins. deep, drains
 S. 30° E. ascend 300 ft. to ridge
 27.00 Bear quaking asp timber, bears N.W. and S.E.
 40.00 Set a gray sand stone 15 x 6 x 6 ins 10 ins. in ground
 for 1/4 acre cor. marked 114 on N. face, raise mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
 66.00 Top of ridge bears N. 50° W. and S. 50° E. thence along E. slope
 8.00 Set a red sand stone 24 x 12 x 5 ins 15 ins. in ground for
 cor of secs 4, 5, 8 and 9, marked with 5 notches on S and 4
 notches on E edge raise mound of stone 2 ft. base 1 1/2 ft. high
 N. of cor. Pits impracticable.
 Land mountainous
 Soil, sandy loam, 2nd rate
 Quaking asp timber 27.00 chs.
 Mountainous or heavily timbered land \$0.05 chs.

- S. 805' E. on a random line N. mt. secs. 4 and 9.
 - 000 Set timber 1/4 acre cor.
 79.04 Between N. and S. line 19 ins. S. of cor. of secs. 3, 4, 9 and 10
 thence on line

Subdivision of T.7 N.R.5 E.—Continued

	S.8954 N. on a true line bet. secs. 4 and 9
	On ascending land 175 ft to
11.00	Top of ridge, bears N.30°W. and S.30°E. ascend 200 ft to
28.00	Bottom of ravine, spring wash 5 ft wide 3 ins deep drain S.25°E. Also after quaking asp timber bears N.25°W. and S.25°E. ascend 200 ft to ridge
39.97	Set a red sand stone 14x10x8 ins. 9 ins. in ground for 1/4 acre cor. marked 1/4 on N face, raise mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pit impracticable. A quaking asp. 10 ins diam. bears S.11°E. 2 7/8 ft dist marked 1/4 S.9 B.T. A quaking asp. 7 ins diam. bears N.3°E. 3 3/4 ft dist. marked 1/4 S.4 B.T.
47.00	Same quaking asp timber bears N and S.
50.00	Top of ridge, bears N.10°W. and S.10°E. ascend 175 ft to
71.00	Bottom of ravine, drains S.30°E. ascend 175 ft to
79.94	The cor. of secs. 4, 5, 8, and 9. Land mountainous Soil, sandy, stony, and loam, 2nd and 3rd rates. Quaking asp timber 19.50 chs. Mountainous or mainly timbered land 79.94 chs.

	N.0°6' N. on a random line bet. secs. 4 and 5.
46.00	Set temp 1/4 sec cor.
80.00	Intersect N. Bdy of Twp. 11 Ms. N. Bdy of secs 4, 5, 32 and 33.
	Thence w. w. n.
	S.0°1' E. on a true line bet. secs. 4 and 5.
	On ascending land, through pine timber 200 ft to ridge
11.50	Same pine, after quaking asp timber, bears E and W.
26.00	Thence mainly level along N. slope.
35.60	Draw, drains N.31°. ascend 200 ft to ridge
40.10	Set a gray sand stone 18x16x6 ins 13 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pit impracticable
	A quaking asp 5 ins. diam. bears N.70°E. 6 1/2 ft dist marked 1/4 S.4 B.T.
	A quaking asp 6 ins. diam. bears N.97°E. dist marked 1/4 S.5 B.T.
52.00	Same quaking asp timber bears E and N.
53.00	Ridge, divide between Soft Crust and Bear Den.

Subdivision of T. 7 N., R. 5 E. - Continued

6.000	drainage, also wagon road, marsh and stream.
8.010	Thus nearly level along E slope 100 ft. below ridge The cor. of secs 4, 5, 8, and 9. Sand-mountainous Soil, stony and loam, 2 nd rate. Timber, pine 11, quarreling asp. 41 50 chs. Mountainous or heavily timbered land 800 acres.
	September 30, 1897.

October 1. 1897: At the cor. of secs. 5, 6, 31, and 32, on S. bdy. of Tp. which is a gray sandstone 5 x 14 x 8 ins. above ground, perfectly marked and intersected, we set off 41 1/4 N on the lat. arc, 32 1/2 S on the decl. arc of one of the instruments, and at 7th a.m. L.M.T. determine a true median with the sextant.

Thus we run

N 0° 07' 07" W. betw. secs. 31 and 32.

24.00	On ascending land, through quarrying asp. timber Head of draw, drain 5.5° W. continue ascent.
33.00	Top of ridge, bears S 70° E and N 70° 360. ft. above cor.
40.00	A quarrying asp. 10 ins diam. for 1/4 sec. cor. unmarked 1/4 S. 31 on N. S. 32 on E side, from which a quarrying asp. 8 ins diam. bears S 32 E. 23 chs dist. marked 1/4 S. 32 B. T.
	A quarrying asp. 16 ins diam. bears N 39° W. 18 chs dist. marked 1/4 S. 31 B. T.
63.90	Bottom of gulch, spring branch, 2 1/2 ins wide 2 ins deep drains N. 87° E. 300. ft. below ridge, around 400 ft to Spur projects E. unmarked. 40 ft to
64.50	Bottom of gulch, spring branch, 2 1/2 ins wide, 2 ins deep drains S. E. around 200 ft to sec. cor.
69.20	Bottom of gulch, spring branch, 2 1/2 ins wide, 2 ins deep drains S. E. around 200 ft to sec. cor.
75.60	Lean quarrying asp. timber, bears E and S.
8.000	Set and sandstone 24 x 10 x 8 ins. 18 ins in ground for cor. of secs 2, 9, 30, 31 and 32, marked with 1-notch on S. and 5-notches on E. edge. raised mound of stone 2 ft base 1 1/2 ft high off cor. Pits impracticable
	Sand-mountainous
	Soil, sand, clay, stony and loam, 2 nd and 3 rd rates.
	Quarrying asp. timber 75 50 chs.
	Mountainous or heavily timbered land 800 acres.

Subdivision of T. 7 N., R. 5 E. - Continued.

	East on a random-line mt. sicc 29 and 32.
4.00	Set bank $\frac{1}{4}$ sec. cor.
8.00	Intersect N and S line 10 miles. N of corf sicc 28, 29, 32, and 33. Then, on river N. $89^{\circ} 56' \text{ N.}$ on a true-line mt. sicc 29 and 32. Over ascending land, through quarry asp timber $\frac{1}{4}$ sec. cor.
4.00	Spur projects N. descended. 100 ft to
2.00	Bottom of ravine, spring branch 3 miles wide 5 ins deep, drains N. 65° E. ascended. 400 ft to sec. cor.
4.00	Set a gray lime stone $18 \times 10 \times 8$ ins. 12 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raised round of stone 2 ft. base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable
	A quarry asp 5 ins. diam. bears N 75° N. , 14 miles dist. marked $\frac{1}{4}$ S. 29 B.T.
	A quarry asp 5 ins. diam. bears S. 22 miles dist marked $\frac{1}{4}$ S. 32 B.T.
41.00	Leave quarry asp timber, bears N and S.
76.00	Then gentle descent along S. slope.
80.02	The corf sicc 29, 30, 31, and 32. Sand-mountainous Soil, stony and loamy, 2 nd and 3 rd rates. Quarrying asp timber 41.00 hrs. Mountainous or heavily timbered land 80.02 hrs.,

	N $69^{\circ} 27' \text{ N.}$ mt. sicc. 29 and 30.
	Over ascending land 50 ft to
5.00	Top of ridge, bears E and N. also enter quarry asp timber same bearing descended 150 ft to
18.50	Bottom of canon, spring branch 2 miles wide 2 ins deep, drains S. 85° E. ascended 175 ft to
39.00	Top of ridge bears E and N descended 80 ft to gulch
40.00	Set a gray sand stone $14 \times 10 \times 6$ ins 9 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, from which
	A quarry asp 8 ins diam. marks 10 miles dist. marked $\frac{1}{4}$ S. 29 B.T.
	A quarry asp 8 ins diam. bears N. 12 miles dist. marked $\frac{1}{4}$ S. 30 B.T.
46.00	Bottom of gulch, drains E ascended 70 ft to
51.00	Top of spur projects E. descended 70 ft to

Subdivision of T.7N, R.5E.—Continued

- 58.0 Bottom of gulch, drains E. ascend 70 ft. to
65.00 Spur, projects E. ascend. 40 ft. to
69.00 Bottom of gulch, drains E. ascend. 40 ft. to
72.00 Spur, projects E. descend. 100 ft. to
8.00 Sit a gray sandstone 16 x 6 x 10 ins. 11 ins. in
ground for cor. of secs. 19, 20, 29 and 30, marked with
scratches on S. and 5 notches on E edges, raised mound
of stone 2 ft. base 1 1/2 ft. high. Pit impracticable
A quarry asp 4 ins. diam, was N 59° E. 84 ft. dist.
marked T.7N, R.5E., S. 20 B.T.
A quarry asp 9 ins. diam was S 27° E 76 ft. dist.
dist. marked T.7N, R.5E., S. 24 B.T.
A quarry asp 7 ins. diam was S 40° N. 85 ft. dist.
dist. marked T.7N, R.5E., S. 30 B.T.
A quarry asp 6 ins. diam was N 55° N. 78 ft. dist.
dist. marked T.7N, R.5E., S. 14 B.T.
Land mountainous.
Soil, clay, stony and loam, 2nd and 3rd nates
Quarry asp timber 75 ft. chs.
Mountainous or heavily timbered land 8000 chs.
-
- +0.00 S 89° 56' E on a random line bet. secs. 20 and 29
Sit temp. 1/4 sec. cor.
71.98 Intersect N. and S. line 7 ft. S. of cor. of sec. 20
+1.2 8. and 29.
Thence w. w.
N 89° 5' N. on a true line bet. secs. 20. and 29.
On descending land. 300 ft. to ravine
2.00 S. spur, projects S. W. thence more abrupt descent.
6.60 Enter quarry asp, was N 30° E. and S. 30° N.
28.00 Bottom of ravine, spring branch 6 ft. wide 6 ins. dep,
drain S. Also bear quarry asp. bearing N. and S.
30.90 Sit a gray quartzite stone 14 x 8 x 7 ins, 9 ins in
ground for 1/4 sec. cor. marked 1/4 on N face,
raise mound of stone 2 ft. base 1 1/2 ft. high
N of cor. Pit impracticable.
51.00 Top of ridge, bears N and S 300 ft. above ravine, descend 275 ft.
74.00 Bottom of ravine, Blue Ridge Branch of Lost Creek, drains S.
4 ft. wide 4 ins. deep, Enter quarry asp.
timber bears N and S. ascend 125 ft. to
79.98 The cor. of secs. 19, 20, 29, and 30.
Land mountainous

Subdivision of T.7 N. R.5 E. - Continued.

	Soil, stony and loam, 3 rd rate. Quarrying asp timber 32.00 chs. Mountainous or heavily timbered land 79.98 chs.
	The sky is over cast and solar observations are impossible. N 0° 7' N. lat. sec. 19 and 20.
3.00	On descending land, through quarrying asp timber 30 ft. to Bottom of ravine, drains S. also lean quarrying asp timber mass E and N. ascend. 125 ft. to
8.00	Span projects S.E. ascend. 200 ft. to
34.00	Bottom of ravine, Blue Ridge Branch of Salt Creek 4 miles wide 4 ins. deep, drains S. 20° E. ascend 500 ft. to summit.
40.00	Set a gray sand stone 18x10x8 ins. 12 ins. in ground In 1/4 sec. cor. marked 14 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high 2 ft. of cor. Pitt impracticable.
51.00	Set a red sand stone 15x11x8 ins. 10 ins. in ground for cor. sec. 17, 18, 19, and 20, marked with 3 notches on S and 5 notches on Edge, raise mound of stone 2 ft. base 1 1/2 ft. high 2 ft. cor. Pitt impracticable A quarrying asp 14 ins. diam. bears N 15° E. 236 ft. sec. line marked T.7 N. R.5 E. S. 17 B. T. A quarrying asp 12 ins. diam. bears N 21° 10' E. 254 ft. sec. line marked T.7 N. R.5 E. S. 18 B. T. No other trees within limits
	Sand mountainous
	Soil, clay, stone and loam, 2 nd and 3 rd rates. Quarrying asp timber 3 chs. Mountainous or heavily timbered land 80.00 chs.

	S 89° 54' E on a random line N. sec. 17 and 20.
40.00	Set trunk 1/4 sec. cor.
71.94	Distinct N. and S. line 23 ft. S. of cor. of sec. 16, 17, 20, and 21
	These are new
	S 89° 51' W. on a true line N. sec. 17 and 20.
	On descending land 175 ft. to
9.00	Bottom of draw, drains S. ascend 270 ft. to ridge
39.97	Set a red sand stone 15x10x5 ins. 10 ins. in ground for 1/4 sec. cor. marked 14 on N. face raise mound of stone 2 ft. base 1 1/2 ft. high.

Subdivision of T7N, R.5 E. - Continued

	n. of cor. Pits impracticable.
47.00	Top of ridge, bears N. and S. ascend 100 ft. to
59.00	Bottom of ravine, drains S. ascend 100 ft. to
73.00	Top of ridge, bears N and S. descend 75 ft. to
79.94	The cor. of secs. 17, 18, 19, and 20 Land mountainous Soil, clay, stone, and loam, 2nd and 3rd rates. No timber Mountainous or heavily timbered land 79.94
	n. 0° 0' 7 3/4 . bet secs 17 and 18
200	Over gentle ascent, along N. slopes. 200 ft. to top of ridge. Enter quarry asp timber bearing E. and N.
34.54	A quarrying asp, 16 ins. diam on limestone bed on N. and S. sides
40.00	Set a chained quarry asp post, 4 ft. long 6 ins sq. with a deposit of charcoal - 24 ins in ground for 1/4 sec cor. marked 1/4 S. 18 on N. and S. faces from which A quarrying asp + ins diam, bears 745° E. 160 ft. dist. marked 1/4 S. 17 B.T.
	A quarrying asp 10 ins diam bears 745° N. 160 ft. dist. marked 1/4 S. 18 B.T.
57.00	Top of ridge, bears N. and S. E., descend 50 ft. to
64.00	Head of draw, drains S. 70° E., ascend. 100 ft. to
79.00	Enter small plateau, bearing E. and N.
80.00	Set a gray sand stone 14x8x6 ins. 9 ins in ground for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on S. and 5 notches on E. edges, raise round of stone 2 ft base 1 1/2 ft high. N. of cor. Pits impracticable. A quarrying asp, 14 ins diam, bears N. 15° E. 100 ch. dist marked T7N, R.5 E. S. 8 B.T.
	A quarrying asp 8 ins. diam bears S. 15 1/2 ° E. 110 chs. dist marked T7N, R.5 E. S. 17 B.T.
	A quarrying asp 8 ins diam bears S. 51 1/2 ° N. 200 chs. dist marked T7N, R.5 E. S. 18 B.T.
	No trees within limits in sec 7.
	This cor. stands at E. edge of opening in timber Land mountainous Soil, clay, gravel, and loam, 2nd and 3rd rates. Quarrying asp timber 78 yo chs.
	Mountainous or heavily timbered land 8000 chs

Subdivision of 57N R 5E. - Continued

	N. 89°51' E. on a random line bet sec. 8 and 17.
4.000	Subtemp 1/4 sec. cor.
7.9.86	Intersection N. and S. line 25 miles N. of cor. of sec. 8, 9, 16, and 17.
	Thence nor more
	N 89°58' N. on a true line bet sec. 8 and 17.
	Over arid land, through granite asp timber 20 ft to
2.000	Top of ridge, bears N. 20° W. and S. 20° E. ascend. 175 ft to ravine
3.2.00	Leave granite asp timber, bears N. and S.
3.9.93	Set a gray quartzite 15 x 4 x 6 ins 10 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raise mound of stone 2 ft base 1 ft high N. of cor. Pits impracticable
4.3.00	Ravine, drains S. ascend. 15 ft to
4.7.00	Top of ridge, bears N. 30° E. and S. descend 125 ft to
6.1.00	Bottom of ravine, drains S. ascend. 200 ft to
7.2.00	Center plateau, timbered with quaking asp., bears N. 45° S.
7.9.86	The corf sec 7, 8, 17, and 18.
	Land mountainous
	Soil, clay gravel and loam, 2nd and 3rd rates.
	Quaking asp timber 3.9.96 chs.
	Mountainous or mainly timbered land 7.9.86 chs.

N 89° 7' N. bet. sec. 7 and 8.

Over plateau along E. edge of opening in quak-
ing asp timber.

1.000.	Leave plateau, bearing N.W. and S.E. also re-entre timber, bearing N.W. and S. ascend. 90 ft.
1.9.00	Head of draw, drain S.E.; ascend. 200 ft to ridge
4.000	A quaking asp. 14 ins. diam. for 1/4 sec. cor. unmarked 1/4 S. 7 on N. and S. 8 on E. sides. from which A quaking asp 8 ins. diam. bears S. 25° E. 23 miles dist. marked 1/4 S. 8 B.T.
	A quaking asp, 10 ins diam. bears N. 30° W. dist. marked 1/4 S. 7 B.T.
5.9.00	Wagon road, bears E. and N.
6.5.00	Ridge, divide between Lost Creek and Bear River drainage, descend. 100 ft to
7.5.00	Draw, drain E. ascend. 50 ft to
8.0.00	Set a gray quartzite stone 14 x 8 x 8 ins. 9 ins in ground for corf sec 5, 6, 7, and 8. marked with 5 notches on S. and E. edges, raise

Subdivision of T.77N, R.5 E. - Continued.

mound of stone 2 ft base 1½ ft high. N. of cor. Pitt impracticable

A quarry asp 10 ins. diam. max $74^{\circ} E.$ 48
Mr. dist. marked T.77N, R.5 E. S. 5 B.T.

A quarry asp 10 ins diam, max $57^{\circ} E.$ 37 ft
dist. marked T.77N, R.5 E. S. 8 B.T.

A quarry asp 7 ins diam max $54^{\circ} N.$ 82 ft
dist. marked T.77N, R.5 E. S. 7 B.T.

A quarry asp 8 ins diam max $74^{\circ} N.$ 60
Mr. dist marked T.77N, R.5 E. S. 6 B.T.

Land mountainous

Soil, clay gravel and loam, 2nd rate.

Quarrying September 7 1902 chs.

Mountainous or heavily timbered land 8000

$\Delta 89^{\circ} 58' E.$ on a random line bet. secs. 5 and 8.

4.00 Set temp 1/4 sec. cor.

7.0.92 Intersch. n and S line, 11 Mr. S of cor of secs 4, 5,
8 and 9.

Hence we run

$\Delta 89^{\circ} 57' N$ on a true line bet. secs. 5 and 8.

On ascending land. 75 ft. to

5.50 Ridge, divide between Lost Creek and Bear River
drainage, also Waggon Road, max N. and S. about

6.00 Enter quarry asp timber, max N. and S.

3.5.00 Some scattering pine among quarry asps.

3.9.96 Set a gray sand stone 18 x 8 x 6 ins 12 ins in
ground for 1/4 sec. cor. marked 1/4 on N face,
raise mound of stone 2 ft. base 1½ ft high
N. of cor. Pitt impracticable.

6.0.00 Bottom of gulch, max $75^{\circ} E.$ 250 ft. below ridge and

7.0.92 The end secs. 5, 6, 7, and 8, 150 ft. above gulch

Land mountainous

Soil, clay, stony, and loam. 2nd and 3rd rates

Quarry asp timber, with a few scattering pines, 7392 chs.

Mountainous or heavily timbered land 7942 chs.

$N. 0^{\circ} 07' N.$ on a random line bet. secs. 5 and 6.

4.0.00 Set temp 1/4 sec cor.

7.0.96 Intersch. N. bdy. of T. 7. 9 chs. 718 of cor of secs 5, 6, 7,
and 8, established by us Sept 24.

Hence we run

Subdivision of T.7 N., R.5 E. - Continued.

	S. 083° E. on a true line bet. secs 5 and 6
16.00	Over descending land, through quarrying asp timber.
2.5.00	Leave quarrying asp timber, bearing E. and N.
39.96	Abrupt descent. bearing E. and N. 350 ft. to canon.
	Set a gray quartzite stone 14x10x6 ins. 9 ins in ground for 1/4 Sec. cor. marked 1/4 on N face raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
41.50	Bottom of canon. Woodruff or 12 mile cut 10 ft. wide 3 ins deep. drains E. ascend. 400 ft. ridge
43.00	Enter heavy pine timber, bears S. and W.
74.00	Top of ridge, bears N 80° E and S 60° W. also lean pine into quarrying asp timber, same bearing, descend.
79.96	The cor. of secs. 5, 6, 7 and 8. 40 ft. below ridge Sand mountainous.
	Soil, sandy, clay, stony and loam 2 nd and 3 rd rates. Timber, Pine 31.00 chs. quarrying asp. 15.96 chs. Mountainous or heavily timbered land. 79.96 chs
	October 1. 1897.

October 2. 1897: At the cor. of secs 29, 30, 31, and 32 we set off 419.8' N on the latitude, 345° S on the decl. arc of one of the instruments, and at 7° 50' min. L.M.T., determine a true meridian with the solar.

Thence we run

West on a random line bet. secs. 30 and 31

4.000 Set steep 1/4 sec cor.

Intersect First guide meridian East on 7th bdy. of S.p. 5 chs. N. of cor. of sec. 25, 30, 31 and 32, established by us Sept. 23.

Thence we run

N 89° 57' E on a true line bet. secs. 30 and 31.

Over ascending land, through quarrying asp timber

Top of ridge, bears N 60° W and S 60° E, descend 200 ft. to gulch

Leave, quarrying asp timber bearing N. and S.E.

Set a gray quartzite 16x8x5 ins 11 ins in ground for 1/4 sec. cor. marked 1/4 on N face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable,

28.00 Bottom of gulch, drains S 65° E, then gully ascult.

55.12 The cor. of secs 29, 30, 31, and 32.

Subdivision of T.TN, R.5 E. - Continued

	<p>Land mountainous Soil, sand, clay, gravel and loam <u>2nd</u> and <u>3rd</u> rates Quarries asp timber 1000 chs.</p>
40.00	<p><u>Mountainous or heavily timbered land 5.5.12 chs.</u> From the cor. of secs. 19, 20, 29, and 30, in mtn. S. 89° 57' N. on a random line bet. secs. 19 and 30. Set temp 1/4 sec. cor.</p>
54.82	<p>Intersect First Guide Meridian E. on N. bdy. of Tp. 6 the N. of cor. of secs. 19, 24, 25, and 30. Thence w. mtn. N. 89° 53' E. on a true line bet. secs. 19 and 30. On ascending land, through quarry asp timber 125 ft. Ridge, Bear N and S. descent, 450 ft. to sec. cor. Set a gray quartzite stone 18 x 16 x 14 in. 12 in. in ground for 1/4 sec. cor. marked 1/4 on N face raise mound of stone 2 ft. base 1 1/2 ft. high. N. of cor. Pits impracticable, A quarry asp. 8 ins diam. bear N. 30° 37' W. 18 ft. dirt marked 1/4 S 19 B. T. A quarry asp 8 ins diam, bear S. 32° 44' E dist marked 1/4 S 30 B. T.</p>
49.00	<p>Gulch, drains N. E., thence gulf descends along N. slope.</p>
54.82	<p>The cor. of secs. 19, 20, 29, and 30. Land mountainous So Soil, clay and sandy loam <u>2nd</u> and <u>3rd</u> rates. Quarries asp timber. 54.82 chs. <u>Mountainous or heavily timbered land 5.4.82 chs.</u></p>
	<p>From the cor. of secs. 17, 18, 19, and 20 w. mtn. S. 89° 53' N. on a random line bet. secs. 18 and 19. Set temp 1/4 sec. cor.</p>
40.00	<p>Intersect First guide Meridian on N. bdy. of Tp. 5 Ms. 3 of cor. of secs. 13, 18, 19, and 24 established by us Sept. 23. Thence w. mtn. N. 89° 56' E. on a true line bet. secs. 18 and 19</p>
6.00	<p>On descending land, through quarry asp timber 150 ft. Bear, quarry asp timber, bearing N and S.</p>
14.00	<p>Swale, drains S. 60° E. thence along S. slope.</p>
14.64	<p>Set a gray quartzite stone 25 x 15 x 16 ins 18 ins in ground for 1/4 sec. cor. marked 1/4 on N face raise mound of stone 2 ft. base 1 1/2 ft. high. N. cor. Pits impracticable</p>

Subdivision of T.7 N, R.5 E. - Continued.

30.00	Draw, drains S. ascend, 100 ft to
40.00	Top of spur, projects S. also with quarrying asp timber, marshy and S. descended, 100 ft to river
44.00	Lean timber marshy land S.
5.00	Ravine, drains S. ascend, 60 ft to
54.44	The cor. of secs. 17, 18, 19 and 20. Land mountainous Soil, sandy loam, 2 nd rate. Quarrying asp timber 15.00 chs. Mountainous or heavily timbered land 54.64 chs
	From the cor. of secs 7, 8, 17 and 18 in river
	S. 89°56' N. on a random line bet. secs 7 and 18.
40.00	Set temp 1/4 sec. cor.
54.48	Intersect First Guide meridian East. on N. bdy of T. p. 10 Mr. N. J. cor. of secs. 7, 12, 13, and 18, established by us Sept. 23. Thence in river
	N. 89°50' E. on a true line Mr. secs. 7 and 18.
	On an ascending land, through quarrying asp timber
25.00	Top of spur projects S. descended, 200 ft to gulch
14.48	Set a gray sand stone 16 x 10 x 6 ins. 11 ins in ground, for 1/4 sec. cor. marked 1/4 on surface, from which A quarry asp. 8 ins diam, marshy, 20 lbs dict. marked 1/4 S. 7 B.T. A quarry asp. 14 ins diam marsh S. 39 lbs. dict. marked 1/4 S. 18 B.T.
23.48	Rag road, marshy and S.
23.80	Bottom of gulch, drains S. ascend 300 ft to plateau
43.50	Lean quarrying asp, marshy and S.
48.50	Entire plateau, forming divide between Lost Creek and Ogden River drainage, marshy and S.
54.48	The cor. of secs. 7, 8, 17, and 18. Land mountainous Soil, clay and gravelly loam, 2 nd rate Quarrying asp timber 43.50 chs., mountainous or heavily timbered land 54.64 chs.
	October 21, 1897: at this cor we set off 353' S. on the dict. arc of one of the instruments and at 12 th min in, by N. T. observe the sun on the meridian, the resulting lat. is 41° 21' N.
	From the cor. of secs 5, 6, 7, and 8, in river
	S. 89°50' N. on a random line Mr. secs. 6 and 7.

Subdivision of T. 7 N. R. 5 E. - Concluded.

- 100 Set. trees 11-sec. cor.
54.40 Enters first subdivision East, on side of Mt. 3462 ft.
7 cor. of sec. 1, 6, 7, and 12, established by us Sept 23.
Line we run
7.2458 E on a true line bet. secs. 6 and 7.
On descending land, through quaking asp timber.
12.50 Sun shining asp, inter fine timber becoming N. and S.
14.40 A pine 3.0 ins. diam for 1/4 sec. cor. we marked 1/4 S 6 on
N and S 7 on S. face, from which
A pine 8 ins. diam. was N 23° W 38 ft. dist. marked 1/4 S 6 B.S.
A pine 10 ins. diam. board 2 7/8 x 2 4/4 ft. dist. marked 1/4 S 7 B.S.
17.50 Gully, drains N. 200 ft. below sec. cor. ascend 250 ft. to
22.50 Top of ridge, bears N. 60° E. and S. 70° ascends, also
bear pine with quaking asp. 26 ft. to
54.40 The cor. of secs. 5, 6, 7, and 8.
Land-mountainous
Soil, clay and sandy loam, 2nd and 3rd rates.
Timber, Pine 3 1/2 to 6 chs. quaking asp, 2 1/2 to 5 chs.
Mountainous or heavily timbered land 5 1/2 to 6 chs.

October 2, 1847.

General Description —

This township contains only mountainous, the soil ranging from 2 to 4 rate or from a sandy loam to my stony soil. For the most part the hills and mountains are smooth, which makes it of value for grazing purposes.

Agriculture cannot be carried on in any part of the township.

Some fine and an abundance of quaking asp is to be found in the west half of the township. This would grow in abundance if it were not so heavily stocked with shrub.

There is plenty of water in the gulches, for all purposes that the land will be used.

There are no settlers on the township.

There are no indications of mineral in the township.

Frank E. Baxter

William B. Dougall

W. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and fixing the lines and corners described in the foregoing field notes of the survey of _____

ving the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____, day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah May 7th 18
Subdivisions of Township
7 Salt Lake 5 East of the Salt Lake Base Meridian
Utah

The foregoing field notes of the survey of _____, executed by _____, under his contract No. _____, dated _____, 189_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blodell

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

First Grade Minidue East

...Through

Townships No. 8 North,

Bitterne Range No² 4 and 5 East.

of the Salt-Lake Base and Meridian,

جَاهِلَةُ الْمُسْكَنِ

AS SURVEYED BY

and E. Baxter and William F. Thompson, United States Deputy Surveyor,

under ~~their~~ Contract No. 7-14, dated July 21, 1897.

... commenced October 4, 1897

when completed, October 5, 1897.

Monarchs - 1000 75-100
Danaus - 1000 90-100

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Hallis	Chairman
John W. Stimpson	Chairman
James W. Welsh	Chairman
James Street	Wardenman
David B. Gove	Wardenman
Walter W. McLaughlin	Assman
Thomas Slater	Assman
George M. Dougall	Flagman
Charles Lallis	Flagman

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Volume

#

R0247

BOOK A-247

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level ; chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chainm.....

, Chainm.....

Subscribed and sworn to before me this }
day of , 189 }


WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundm.....

, Moundm.....

Subscribed and sworn to before me this }
day of , 189 }


WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given us, to the best of our skill and ability, in the surve

, Axm.....

, Axm.....

Subscribed and sworn to before me this }
day of , 189 }


I, , do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability, in m survey of

, Flagm.....

Subscribed and sworn to before me this }
day of , 189 }


Guide meridian East, through Twp. 8 N.; between R.R. 4 and 5 E.

Sunny commenced October 4, 1897, and continued with two
N. and S.E. Guly light mountain transits - no number
- each with solar attachment. The horizontal
limb of each is provided with two double
minutes placed opposite to each other, reading
to single minutes of arc, which is also the least
count of the minutes of the latitude and declination
arc.

The instruments were examined tested on the true
meridian at Salt Lake City, found correct and
were approved by the surveyor general for Utah,
August 2, 1897.

We examined the adjustments of the transits and
correct the line and collimation errors, then
to test the solar apparatus by comparing their
indications resulting from solar observations
made during a.m. and p.m. hours with a true
meridian determined by observations on Polaris,
and proceed as follows:-

At the cor. of Twp. 7 and 8 N., R.R. 4 and 5 E., established by us
Sept. 24 - latitude $41^{\circ} 2' 3''$ N., longitude $111^{\circ} 2' 6''$ W. we
set off $41^{\circ} 2' 3''$ N. on the lat. arc, $+4^{\circ} 45' 3''$ on the decl. arc of one
of the instruments, and at $3^{\text{h}} 15^{\text{m}}$ p.m. L.M.T. determined
with the solar, a true meridian and mark a point
thereof on a plug driven in the ground 5 chs. N. of cor.

With the second instrument placed over the same ini-
tial point, we set off $41^{\circ} 2' 3''$ N. on the lat. arc,
 $+4^{\circ} 45' 3''$ on the decl. arc; and at $3^{\text{h}} 15^{\text{m}}$ p.m. L.M.T., de-
termined with the solar, a true meridian and mark
a point thereof on the plug already set 5 chs. N. of
our station. This point fall $\frac{1}{2}$ in. east of that of
the 1st instrument.

At 6^h 5^m by our watches which are $2^{\text{m}} 44^{\text{s}}$ fast of Int.
in abm Polaris at eastern elongation, with
the 1st instrument, in accordance with the Manual
of Instructions and mark a point on the line
thus determined on a plug driven in the ground
5 chs. N. of our station.

October 4, 1897.

First Quadrant Meridian East through the Magnetic Reversal

October 5, 1897 At 6:00 a.m. left in day off the aqua
of Polar 13° to the west and made the true
meridian thus determined with the 1st instrument
by a pencil mark on the stable set Oct. 4, on
which the true meridian falls 0.2 in. east of the
meridians determined by the solar & the 1st instrument,
and 0.1 in. east of that of the 2nd instrument.

At 7:30 a.m. left we set off +123' N of the lat. arc,
45° S on the decl. arc of the 1st instrument, and
made a point in the true meridian determined
with the solar, by a pencil mark on the stable
already set 5 chs. N of our station. This mark
falls 0.3 in. east of the true meridian established
by the Polaris observations.

At 7:45 a.m. left we set off +123' N of the lat. arc,
45° S on the decl. arc of the 2nd instrument, and
made a point in the true meridian determined
with the solar, by a pencil mark on the stable
already set 5 chs. N of our station. This mark falls
0.1 in. east of the true meridian established by
the Polaris observations.

The solar apparatus by p.m. and a.m. observations
define positions for true meridians, respectively
about 0' 11" west and 0' 16" east of the true meridian
established by the Polaris observations - with the
1st instrument, and 0' 05" west and 0' 05" east of the
same with the 2nd instrument; therefore we conclude
the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridians at 7:45 a.m.
is N 17° 16' W. The angle thus determined, reduced
by the table, page 100, gives the mean magnetic 17° 13' E.

From the end of Pp 1 and S N Qs 4 and 5 E, we run
west but see 31 and 36

One descending land, through quarrying all timber
Bottom of ravine 100 ft below sea on. debris covered.

T P of open, 100 ft above sea on. debris covered.

Lean leaning all p. with debris fine timber here & there.

Difference in magnitude of 4000 ft by two sets of
timber in the portion of middle land.

10.50

1.00

3.00

	By 1 st set 39.96 chs By 2 nd set +0.04 chs. the mean of which is
40.00	A pine 18 in diam for 1/4 sec, cor, was marked 1/4 S 36 on N. S 31 on E sides, from which A pine 14 in diam was N 20° E 21 1/4 chs dist. marked 1/4 S 31 B.G.
	A pine 12 in diam was N 71° W 34 1/4 chs dist marked 1/4 S 36 B.G.
54.50	Bottom of cañon, 350 ft below spur, spring branch 2 1/4 miles 1 in. deep drains E. also bear timber parallel to ridge ascend
75.00	Entire quaking asp timber bearing E. and W. Difference bet. measurements of 80.00 chs by two sets of chainmen is 6 chs; position of middle point By 1 st set 80.03 chs By 2 nd set 79.97 chs. the mean of which is
80.00	Sat a gray sandstone 16 x 8 x 6 ins 11 ins in ground for cor of sizes 25, 30, 31, and 36, marked with 1 notch on S and 5 notches on N edges, from which A quaking asp 1 1/2 in diam was N 58° E 1 1/4 chs dist marked T.8 N, R.6 E, S.30 B.G. A quaking asp 10 in diam was S 71° E 4 1/4 chs dist. marked T.8 N, R.5 E, S.31 B.G. A quaking asp 9 in diam was S 46° W 10 1/4 chs dist marked T.8 N, R.4 E, S.36 B.G. A quaking asp 11 in diam was N 44° W 37 1/4 chs dist marked T.8 N, R.4 E, S.25 B.G.
	Land mountainous: Soil, sandy and gravelly loam 2 nd rate Timber, Pine and quaking asp. Mountainous or heavily timbered land 80.00 chs.

North W. sizes 25 and 30

Our arreeding land through quaking asp timber

Top of ridge, 350 ft. above cañon, was N 70° E and S 70° W descending
down quaking asp tree pine timber, near E and W.

Difference bet. measurements of 400.0 chs by two sets
of chainmen is 10 chs; position of middle point

By 1st set 400.6 chs

By 2nd set 39.95 chs, the mean of which is

First Guide from East through Pts. 8 N. between Rs. 4 and 5 E. - Continued

- 4.00 Set a gray sand stone $36 \times 12 \times 8$ ins. 27 ins in ground for
 1/4 sec. cor. marked 1/4 on N. face, raised mound of stone
 2 ft base 1 1/2 ft high N. of cor. Pits impracticable.
 A pine 8 ins diam near E. 1/2 mls dist marked
 1/4 S. 30° B. T.
 A pine 10 ins. diam near N. 20 mls dist marked
 1/4 S. 25° B. T.
- 45.00 Bottom of canon, 600 ft. below ridge, spring branch 1/2 mile wide pine dup, drain N. 60° E. ascnd.
- 58.75 Top of spur 300 ft above canon projects E. descnd
- 65.00 Ravine 100 ft. below spur, drain E. ascnd.
- 71.00 Top of spur, 150 ft. above ravine, projects E. descnd
- 75.00 Pines become scattering,
 Difference between measurements of 8.00 chs. by two sets
 of chainmen is + the position of middle point
 By 1st set 79.98 chs.
 By 2nd set 80.02 chs. the mean of which is
- 8.00 Set a gray sand stone $12 \times 12 \times 8$ ins. 8 ins in ground for
 cor. faces 19, 24, 25, and 30, marked with scratches on 3
 and 4 notches on N. edge, raised mound of stone 2
 ft base 1 1/2 ft high N. of cor. Pits impracticable
 Land mountainous,
 Soil, gravelly loam and some stone 3rd and 4th ratios
 Timber, Pine and quaking asp
 Mountainous or heavily timbered land 8.00 chs.
- North Mts. secs 19 and 24
 On descending land through scattering pine timber
 draw scattering pine timber near E. and N.
 Bottom of draw, 50 ft below spur, spring branch 1/2 mile
 1 in. dup, drain E. ascnd.
- 25.00 Top of ridge 325 ft above draw, near N. 60° E. and S. 60° W. descnd
 Difference between measurements of 4.00 chs. by two sets
 of chainmen is 2 mls. position of middle point
 By 1st set 39.99 chs.
 By 2nd set 40.01 chs. the mean of which is
- 4.00 Set a gray sand stone $14 \times 12 \times 6$ ins. 9 ins in ground for
 1/4 sec. cor. marked 1/4 on N. face, from which
 A quaking asp 5 ins diam near N. 58° E. 8 1/2 mls dist
 marked 1/4 S. 19 B. T.

	A quaking asp in dian near N. 10° W. ch. dist. marked 1/4 S. 24 B. T.
4.0.75	Entire quaking asp timber, leaning N. N. and S. E., Head of small draw, 200 ft. below ridge, drain E. curved. Spur, projects E. 50 ft. above draw, very abrupt descent, also with heavy pine timber near E. and N.
4.8.00	Difference between measurements of 800 chs. by two sets of chainmen is 15 ft.; position of middle point By 1 st set 39.94 chs.
6.4.00	By 2 nd set 40.06 chs; the mean of which is And pine 24 ins. diam. for cor. sec 13, 18, 19, and 24, measured T. 8 N. S. 18 on N.E.
8.0.00	R. 5 E., S. 19 on S.E.
	R. 4 E. S. 24 on S.W. and
	T. 8 N. S. 13 on N.N.E. sides, with 3 notches on N and S sides, from which A pine, 2 ins. diam. near N. 45° E. 45 ft. dist. marked T. 8 N. R. 5 E. S. 18 B. T.
	A pine 10 ins. diam. near S. 31° E. 34 ft. dist. marked T. 8 N. R. 5 E. S. 19 B. T.
	A pine 14 ins. diam. near S. 21° W. 64 ft. dist. marked T. 8 N. R. 4 E. S. 24 B. T.
	A pine 9 ins. diam. near N. 45° W. 16 ft. dist. marked T. 8 N. R. 4 E. S. 13 B. T.
	Land mountainous Soil sandy and gravelly loam 2 nd and 3 rd rates. Timber, pine and quaking asp Mountainous or heavily timbered land 8000 chs.
	October 5, 1847: At this cor. we set off 5° 3' S. on the dist. arc of one of the instruments and at 11 ^h 49 ^m a.m. L.M.T. observe the sun on the meridian, the resulting lat. is 41° 25' N..

	North, betw. sec. 13 and 18. On steep descent, through heavy pine timber.
1.5.0	Bottom of Willow Creek Canyon, 400 ft. below spur, spruce branch 10 ft. wide 5 ins. diam, flour E. abrupt ascent. Also lean heavy pine timber parallel to canyon.
2.0.00	Thence along E. slope, 425 ft. above canyon.
2.5.00	Head of draw, drain S.E. curved

First Guide Meridian East, through Spur 8 N. between Rcs. 4 and 5 E.; Continued

34.00	Enter plateau and quarrying asp timber, bears E and N. Difference between measurements of 40.00 chrs by two sets of chainmen is 6 chrs.; position of middle point By 1 st set 40.03 chrs.
40.00	Set a gray sand stone 14x10x8 ins 9 ins. in ground for 1/4 sec. cor. marshaled 1/4 on N face raised mound of stone 2 ft base 1 1/2 ft high 3 1/2 ins. cor. Bits impracticable. A quarrying asp 1 1/2 ins diam near E. 1/4 the dist marshaled 1/4 S. 1/3 B. S.
	A quarrying asp 7 ins diam near S. 2 1/2 ft 6 1/2 chrs dist marshaled 1/4 S. 1/3 B. S.
65.00	Leave plateau, bears E and N.
75.00	Leave quarrying asp timber, bears E and N.
79.00	Draw, 175 ft. below plateau, drains N. W. Difference between measurements of 80.00 chrs by two sets of chainmen is 6 chrs.; position of middle point By 1 st set 79.97 chrs
80.00	By 2 nd set 80.03 chrs, the mean of which is The point for sec. cor. falls on a gray sand stone in place 30 x 20 x 14 ins above on which are Cut a cross (X) at exact ... point for cor. of sec. 7, 1/3 and 18, marshaled with 4 grooves and 2 grooves of cross, raise mound of stone 2 ft base 1 1/2 ft high 3 1/2 of cor. Bits impracticable Land mountainous Soil sandy and gravelly loam $\frac{2}{3}$ and $\frac{1}{3}$ ratio Timber, pine and quarrying asp. Mountainous or heavily timbered land 8000 chrs

North Mts. secs 7 and 12

On ascending land

9.00	Top of spur 90 ft above sec cor., projects N. W. descend
38.00	Bottom of ravine, 200 ft below spur, drains N. W., ascend Difference between measurements of 40.00 chrs by two sets of chainmen is + 1 chs; position of middle point By 1 st set 40.02 chrs
	By 2 nd set 39.98 chrs, the mean of which is
40.00	Set a gray sand stone 12 x 12 x 8 ins 8 ins in ground for 1/4 sec. cor. marshaled 1/4 on N. face, raise mound of stone 2 ft base

	1/2 ft. high N.W. cor. Pitt impracticable.
47.00	Spiral, 100 ft. above draw, projects N. thinnest discend west slope. Enter first timber lining E. and N.
52.00	Bottom of canon, 275 ft. below spiral, springy branch 12 ft. the wide base, deep, diam. E. also lean timber mass E and S.
56.50	Dipperule int. measurements of 8.00 ft. by two sets of chain- men is 10 ft., position of middle point By 1st set 8.00 ft. chs. By 2nd set 7.95 chs. the mean of which is
59.00	Set a gray sand stone 12x2x8 ins. thin in ground for surface 1, 6, 7, and 8, marked with 5 notches on Sand 1 notch on N edges rare worn of stone 2 ft. base 1 ft. high N.E. cor. Pitt impracticable. This ch is about 275 ft. above canon.
	Land mountain
	Soil, gravelly loam and stones, 3 rd and 4 th native Timber, lime
	Wooded lime or heavily timbered land for crop.

North cut across - each 1

One acre and one-half

Dipperule int. measurements of 10.00 ft. by two
sets of chainmen is 10.2 position of middle point.

By 1st set 10.00 ft. chs.

By 2nd set 10.2 ft. chs. the mean of which is

49.00 Set a spiral sand stone 12x10x7 ins. thin in ground for
base, cor. marked with 5 notches, rare worn of stone
2 ft. base 1 ft. high N.E. cor. Pitt only note 1 ft.

52.00 Top Ridge 300 ft. above see cor. same E. and S. and

44.00 Enter cutting art. timber, lower E. and S. 1 ft.

46.00 Bottom of canon, 300 ft. below ridge, diam N.E. dressed

Dipperule int. measurements of 7.375 chs. by two
sets of chainmen is 8 ft. chs. position of middle point

By 1st set 7.37 chs.

By 2nd set 7.39 chs. the mean of which is

73.75 Enter the Second Standard Parallel North, 58
Mr. H. of the stand and of Spec. 971 Rs. 4 and 5 E.
which is a sand stone 8x6x5 ins. above ground
marked and situated as described by surveyor general.

Set a red sand stone 50x24x16 ins. 37 ins. in

First Guide Meridian East, through 5 sec 8 N. between Rrs 4 and 5 E. Concluded

ground for the closing cor of T.8 N, Rr. 4 and 5 E., man
cc. 87 N on S

5 E on E and

4 E on N face, with b ground on S, E, and W. face
raise mound of stone 2 ft. base 1 1/2 ft. high S of
cor. Site impracticable.

A quarry asp 5 ins diam, near $343^{\circ} E$, 27' the dis-
marked T.8 N, R.5 E, S.6 B.T.

A quarry asp 4 ins diam near $362^{\circ} N$, 39' the
dis. marked T.8 N, R.4 E, S.1 B.T.

Sand mountainous

Soil gravelly loam and stone, 3rd and 4th rates

Timber quarry asp.

Mountainous or hilly timbered and 7375 che.

October 5, 1897.

Latitude, departures, and closing errors.

Line Designated	True Bearing	Dis- tance chr.	Latitudes.			Departures. che
			N. chr.	S. chr.	E. che	
North bdg. T.7 N, R.5 E.	$589^{\circ} 57' N$	454.32			0.40	454.32
1st G. Meridian E	North	473.75	473.75			
2nd Standard Parallel N	$589^{\circ} 29' E$	455.58	4.11		455.56	
N. bdg. T.8 N, R.6 E.	South	476.74		476.74		
Convergence					0.64	
Total			477.86	477.14	456.20	454.32
			477.14		454.32	
Error in lat			.72	Error dis.	1.88	

General Description —

For general description, see notes of the survey
of the subdivisional lines of T.8 N, R.5 E.

Frank E. Barker

William B. Dougall

U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frank E. Baxter and Lillian B. Dougall, United States Deputy Surveyors to assist in running, measuring, and taking the lines and corners described in the foregoing field notes of the survey of The First Meridian through Townships 7 and 8 North, Between Range 4 and 5 East, of The Salt Lake Base and Meridian in the State of Utah wing the respective capacities in which they acted:

John W. Dougall, Thomas W. Balliday, Chainmen.
David H. Striper, James W. Welsh, Chainmen.
James Stuart, Moundman.
David H. Groux, Moundman.
Albert W. McLaughlin, Axman.
Thomas Slater, Axman.
George M. Dougall, Charles Lallis, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank E. Baxter and Lillian B. Dougall, United States Deputy Surveyors in surveying all parts or portions of the First Meridian East, through Townships 7 and 8 North, Between Ranges 4 and 5 East

of the Salt Lake Base and Meridian in the State of Utah, which are represented in the foregoing field notes as having been surveyed by them and under their direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John W. Dougall, Thomas W. Balliday, Chainman.
David H. Striper, James W. Welsh, Chainman.
James Stuart, Moundman.
David H. Groux, Moundman.
Albert W. McLaughlin, Axman.
Thomas Slater, Axman.
George M. Dougall, Flagman.
Charles Lallis, Flagman.

Oath subscribed and sworn to before me this 8th day of November, 1897

George M. Dougall
Notary Public



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 18____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 1899 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 7th, 1899
The foregoing field notes of the survey of *The Salt Lake Quadrangle*,
East Township & Part between Range 47th East of
the Salt Lake Base & Meridian, Del.

executed by *Frank E. Baxley & Willard B. Daugall*
under ~~his~~ contract No. *D14*, dated *July 3rd*, 1899, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. B. B.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

No. 3.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 8 North, Range No 5 East,

of the Salt Lake Base and Meridian,

in the State of Utah

AS SURVEYED BY

and E. Baxter and William B. Dougall, United States Deputy Surveyors,
under their Contract No. 2114, dated July 21, 1897

Survey commenced October 6, 1897

Survey completed October 13, 1897

6-161

Distances - 58-06-53 ✓
Bearings - 67-10 ✓
Chaining -

NAMES AND DUTIES OF ASSISTANTS.

George M. Dougall	Chairman
Conrad H. Hartley	Chairman
John H. Simpson	Chairman
James H. Welsh	Chairman
James Stark	Memberman
David B. Mann	Memberman
Walter H. McLaughlin	Associate
Thomas Stalter	Associate
George M. Dougall	Flagman
Charles Lallis	Flagman

6-151

Volume

#

R0247

BOOK A-247

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20	29	28	27	26	25
21	22	23	24	25	26

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We,

do solemnly swear that we will well & truly serve the nation and place every thing we have power
whatever our present place or post, & faithfully perform all the duties
we shall receive the commandments of our Lord & Saviour Jesus Christ, & from that we do
swear, in the name of God, Amen.

Solemnly sworn at Boston on the 1st day of April,

Year,

1861

A.D.

S.K.P.S.W.
S.K.P.S.W.
S.K.P.S.W.

We,

do solemnly swear that we will & truly serve the nation & faithfully perform all the duties
we shall receive the commandments of our Lord & Saviour Jesus Christ, & from that we do
swear, in the name of God, Amen.

Solemnly sworn at Boston on the 1st day of April,

Year,

1861

A.D.

S.K.P.S.W.
S.K.P.S.W.
S.K.P.S.W.

We,

do solemnly swear that we will & truly serve the nation & faithfully perform all the duties
we shall receive the commandments of our Lord & Saviour Jesus Christ, & from that we do
swear, in the name of God, Amen.

Solemnly sworn at Boston on the 1st day of April,

Year,

1861

A.D.

S.K.P.S.W.
S.K.P.S.W.
S.K.P.S.W.

I, , do solemnly swear that I will well & truly
serve the nation & faithfully perform all the duties
we shall receive the commandments of our Lord & Saviour Jesus Christ, & from that we do
swear, in the name of God, Amen.

Solemnly sworn at Boston on the 1st day of April,

Year,

1861

Attest,

W.M.H.

Subdivisions of T. 8 N., R. 5 E.

Sunny commenced October 6, 1897, and executed with two Ward & E. Gurley light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc which is also the least count of the vernier of the latitude and declination arcs.

The instruments were examined tested on the true meridian at Salt Lake City, found correct and were approved by the surveyor general for Utah, August 2, 1897.

We examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris we proceed as follows:-

At the cor. of sec. 12, 35 and 36 on S. 1/2 of Twp. established by us September 24, 1897, latitude $41^{\circ} 23' N.$, longitude $111^{\circ} 20' W.$ we set off $41^{\circ} 23' N.$ on the lat. arc, $52^{\circ} 8' S.$ on the decl. arc of one of the instruments, and at $3^{\text{h}} 0^{\text{m}}$ p.m. l.m.t. determine with the solar, a true meridian and mark a point thereon on a plug driven in the ground 5 chs. N. of cor.

With the second instrument placed over the same initial point we set off $41^{\circ} 23' N.$ on the lat. arc, $52^{\circ} 8' S.$ on the decl. arc, and at $3^{\text{h}}, 0^{\text{m}}$ p.m. l.m.t. determine with the solar, a true meridian and mark a point thereof on the plug already set 5 chs. N. of our station. This point falls identical with that of the 1st instrument.

At $6^{\text{h}} 45^{\text{m}}$ by our watches which are $\pm 5.25^{\text{s}}$ fast of l.m.t. we observe Polaris at eastern elongation, with the 1st instrument, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of our station.

October 6, 1897.

Subdivision of T. 8 N, R. 5 E.—Continued

October 7, 1897; At 6^h 30^m a.m. l.m.t. we lay off the azimuth of Polaris, 139° to the west and mark the true meridian thus determined with the 1st instrument, by a pencil mark on the stake set Oct. 6, on which the true meridian falls 0.5 ins. east of the mark determined by the solar of each instrument.

At 8^h 0^m a.m. l.m.t. we set off 41° 2' 5" N. on the lat. arc, 5° 44' S. on the decl. arc of the 1st instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls 0.5 ins. east of the true meridian established by the Polaris observations.

At 8^h 10^m a.m. l.m.t. we set off 41° 2' 5" N. on the lat. arc, 5° 44' S. on the decl. arc of the 2nd instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls 0.1 ins. east of the true meridian established by the Polaris observations.

The solar apparatus by fore. and a.m. observations define positions for true meridians, respectively about 0' 11" west and 0' 1" east of the true meridian established by the Polaris observations—with the 1st instrument, and 0' 1" west and 0' 05" east of the same with the 2nd instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8^h 30^m a.m. is N 17° 16' 7", the angle thus determined reduced by the table, page 100, gives the mean mag. decl. 17° 15' E.

From the cor. of secs 1, 2, 35, and 36 on S. bdy of Tp, here before described, we have

N. 0° 01' 27" W. sec 35 and 36

On descending land.

- | | |
|-------|---|
| 11.00 | Bottom of ravine, 200 ft. below recor. drains S 70° E around. |
| 33.00 | Top of ridge 400 ft. above ravine, also wagon road, near
E and N. discud |
| 40.00 | Set a gray sand stone 24 x 10 x 6 ins., 18 ins. in ground |

Subdivision of T. 8 N., R. 5 E. - Continued

	for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on W. face, raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
64.50	Bottom of ravine 350 ft. below ridge, spring branch 2 ft. wide 1 in. deep drains N. 70° E. ascend.
73.00	Top of spur, 300 ft. above ravine, projects E. descend.
8.00	Set a gray sandstone 18 x 16 x 6 ins. $\frac{1}{2}$ ins. in ground for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and E. edges, raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
	Land mountainous
	Soil gravel and loam 2 nd rate
	No timber
	Mountainous land 8.00 chs.

	N. 89° 57' E. on a random line between secs. 25 and 36.
4.00	Set temp $\frac{1}{4}$ acre cor.
80.28	Interest Es. 1000 \$ 5.12 per 1/4 acre. 25 30 31 and 36, established by us Sept. 10.
	These are ours
	West on a true line bet. secs. 25 and 36
	On descent, along N. slope,
33.00	Draw, 200 ft. below sec. cor., drains N., ascend
38.00	Spur projects N. 50 ft. above draw, descend
40.14	Set a gray sand stone 16 x 10 x 6 ins. 11 ins. in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
63.00	Bottom of ravine 250 ft. below spur, spring branch 2 ft. wide 2 ins. deep, drains N. 35° E. ascend.
80.28	The cor. of secs. 25, 26, 35, and 36.
	Land mountainous
	Soil gravel and stone 2 nd and 3 rd rates.
	No timber
	Mountainous land 80.28 chs.

	N. 89° 57' W. bet. secs. 25 and 26
	On descending land.
5.00	Bottom of gulch 75 ft. below sec. cor., drains E. ascend
23.00	Top of ridge, 200 ft. above gulch, bears E. and 2 nd descend
40.00	Set a gray sand stone 18 x 10 x 6 ins. $\frac{1}{2}$ ins. in ground

Subdivision of T. 8 N., R. 5 E. - Continued

	for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Bits impracticable
+4.00	Bottom of Horn Canyon, 350 ft below ridge, spring branch 5 ft. wide 5 ins. deep, drains S. ascend.
- 66.00	Top of ridge 350 ft above canyon, bears S. and N. descend.
- 8.00	Set a gray sandstone 20x2x10 ins 15 ins in ground for cor. of secs 23, 24, 25, and 26, marked with 2 stakes on S. and 1 stake on Edges, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Bits impracticable Land mountainous, Soil sandy and gravelly loam, $\frac{2}{3}$ rd and $\frac{3}{4}$ th rates no timber mountainous land 8.00 chs.
	Earth on a random line bet. secs. 24 and 25.
+4.00	Set at top $\frac{1}{4}$ acre cor.
80.02	Entire lot bounded by S. p. 5 ft. N. of cor. of secs 19, 24, 25, and 30 established by us Sept 11. Thru. cor. now.
	N. 89° 5' 47" W. on a true line bet. secs. 24 and 25
	On descending land
25.00	Top of spur, 150 ft above sec. cor. projects S. 60° E. descend.
40.01	Set a gray sand stone 32x24x8 ins 24 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Bits impracticable.
63.60	Bottom ravine, 350 ft below spur, spring branch 4 ft. wide 3 ins. deep, drains S. 60° E. ascend.
80.02	The cor. of secs 23, 24, 25, and 26 Land mountainous Soil sandy, gravelly and stony loam, $\frac{2}{3}$ rd and $\frac{3}{4}$ th rates no timber mountainous land 8.00 chs.
	N. 89° 5' 47" W. bet. secs. 23 and 24
	On descending land.
12.00	Bottom of ravine, 200 ft below, sec. cor., spring branch 4 ft. wide 3 ins. deep drains S. 60° E. ascend.
40.00	Set a gray sand stone 16x16x6 ins 11 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Bits impracticable

Subdivision of S. 8 N, R. 5 E.-Continued.

42.00 2 ft. base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable
 Top of ridge 350 ft above gulch, base S. and N. discord.
 Bottom of gulch 200 ft. below ridge, drain 75° Eastward
 Set a gray sand stone $16 \times 12 \times 6$ ins. 11 ins in ground
 for cor. of sec. 13, 14, 23, and 24, marked with 3 notches
 on S. and 1 notch on E. edges, raise mound of stone
 2 ft base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable
 Land mountainous

Soil sandy and gravelly loam $\frac{2}{3}$ rd and $\frac{3}{4}$ th ratios
 No timber

Mountainous land 8.000 chs.

October 7, 1897: At this cor., we set off $548'$ from the
 decl. arc of one of the instruments and at $11^{\text{th}} 58^{\text{m}}$
 a.m. LMT. above the sun on the meridian the
 resulting lat is $41^{\circ} 25' N.$

40.00 S. 89 $58' E$ on a random line between 13 and 24
 Set temp $\frac{1}{4}$ sec. cor.
 Intersect E. bdy. of Twp 11 line S. of cor. of sec 13, 18, 19, and
 24, established by us Sept. 11.
 Then we run S.
 S. 89 $57' N$. on a true line between 13 and 24.
 On slight ascent along south slope
 Set a gray sand stone $24 \times 10 \times 6$ ins. 18 ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound
 of stone 2 ft base $1\frac{1}{2}$ ft. high N of cor. Pits impracticable
 Bottom of ravine, 100 ft. above sec. cor., then step ascent, drain S.E.
 Spur, 300 ft above ravine, projects S.E. continue ascent
 The cor. of secs 13, 14, 23 and 24.
 Land mountainous
 Soil gravelly loam and stone $\frac{3}{4}$ th and $\frac{4}{5}$ th ratios
 No timber
 Mountainous land 8.010 chs.

No. 017 N. between secs 13 and 14.
 On ascending land.
 Hay on road, base N. and S. W.
 Top of ridge 200 ft above sec cor., base N. 60° E. and 30° N.
 Thence discord along crest of spur projecting N.

Subdivision of T. 8 N. R. 5 E. - Continued

4000	Set a sand stone $12 \times 12 \times 6$ ins 8 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
65.66	Thence descend on N.E. slope
8000	Set a gray sand stone $18 \times 16 \times 6$ ins. 12 ins in ground for cor. of secs. 11, 12, 13, and 14 marked with 4 notches on S. and 1 notch on E. edges, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
	Land mountainous
	Soil granely loam and stone 3 rd and 4 th rates.
	No timber
	Mountainous land 8000 chs.
	N. 89° 57' E. on a random line bet. secs 12 and 13.
4000	Set temp $\frac{1}{4}$ acre cor.
79.92	Intersection E. bdy. of Tr. 9 W. N. of cor. Of secs 7, 12, 13 and 18 established by us Sept. 11.
	Thence up run
	N. 89° 59' N. on a true line bet. secs 12 and 13.
	Over ascending land
12.00	Top of ridge 100 ft. above sec. cor. also wagon road runs N.E. and S.W. descend.
59.96	Set a sand stone $30 \times 10 \times 6$ ins 2 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
55.66	Bottom of draw, 300 ft. below ridge, drains N.E. ascend.
79.92	The cor. of secs. 11, 12, 13, and 14.
	Land mountainous
	Soil granely loam 2 nd rate
	No timber
	Mountainous land 79.92 chs.
	N. 89° 57' N. bet. secs. 11 and 12.
	Over descending land.
40.00	Set a gray lime stone $16 \times 8 \times 6$ ins 4 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
50.00	Head of draw, 375 ft. below sec. cor. drains E., ascend.
60.00	Span 65 ft. above draw, projects E. descend.

Subdivision of T. 8 N., R. 5 E.-Continued

79.00	Bottom of ravine, 250 ft below spur, spring branch 1/4 wide 1 in. deep drains N. S. ascend.
80.00	Set a gray sand stone 20x8x6 ins. 15 ins. in ground for cor. of secs 1, 2, 11, and 12, marked with 5 notches on 3 and 1 notch on E. edges. raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable Land mountainous Soil, gravelly and stony $\frac{2}{3}$ rd and $\frac{3}{4}$ th rate no timber Mountainous land - 80.00 chs.
40.00	S. 89° 59' E. on a random line bet secs 1 and 12 Set fence 1/4 sec cor.
80.08	Intersection E. bdy. of Tp. 1/4 mile N. of cor. of secs 1, 6, 7, and 12, established by us Sept. 11 Thence up river N. 89° 53' W. on a true line bet secs 1 and 12. On ascending land Top of ridge 300 ft. above sec. cor. marked and S. descend
40.04	Set a red sand stone 20x10x8 ins 15 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft base 1/2 ft high N. of cor. Pits impracticable This cor. stands in head of draw, 300 ft below ridge and 5 chs. Thence S. 75° E. descend
49.00	Top of ridge 100 ft above 1/4 sec. cor. bears N. 15° E. and S. 15° E. 5 chs. Thence S. 75° E. descend
80.08	The cor. of secs 1, 2, 11, and 12. Land mountainous Soil gravel and stone $\frac{4}{5}$ th rate no timber Mountainous land 80.08 chs.
6.00	N. 00° 17' W. on a true line bet secs. 1 and 2. On ascending land Change in the slope 100 ft. above sec cor, thence descend.
34.00	Spring branch, 3 ft. wide 4 ins. deep, also Bottom of ravine, 175 ft. below change of slope, drains N. 30° E.
40.00	Set a gray sand stone 20x8x6 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft base 1/2 ft high N. of cor. Pits impracticable

Subdivision of T. 8 N., R. 5 E.-Continued

- 4950 Top of spur 125 ft. above river, project E, desired.
 6600 N. half of 1/2 mile Canon, 200 ft. below spur, cut 20 ft.
 with 1 ft. deep drains E, abrupt ascent
 - 7620 Between 2nd Standard Parallel North on N. bdy. of Tp 12x9
 chrs S 89° 29' N. of the standard cor. of secs 35 and 36, which
 in a sandstone 4 x 8x6 ins. iron ground marlled and
 inturned as described by the arroyo general
 Set a brown quartzite stone 12 x 10 x 6 ins. 8 ins. in ground
 for dividing cor. of secs 1 and 2, marlled C Cor. with
 1 grain on E and 5 grains on W. face, raised around
 stones 2 ft. base 1/2 ft. high S. of cor. Pits impracticable
 land mountainous.
 Soil gravel and stone 4th rate
 No timber.
 Mountainous land 7620 chrs.

October 7, 1897.

October 8, 1897: At cor. of secs. 2, 3, 34, and 35 on S bdy. of
 Tp, established by us Sept. 24. in alt. off 41° 23' N.
 on the lat. arc. 603'. On the decl. arc. of one of the
 instruments and at 7th 00 m. a.m., but did not determine a
 true meridian with the solar.

These are our

N. 0° 2' 3" W. bet secs 34 and 35.

One ascending land.

- 1400 Ridge 150 ft. abov sec. cor. wagon road, near E and N. desired.
 3300 Bottom of gulch 200 ft. below ridge, drains E. ascend.
 4400 Set a gray sand stone 14 x 8 x 6 ins. in ground for 1/4
 sec. cor. marked 1/4 on W. face, raised around stones 2 ft.
 base 1/2 ft. high N. of cor. Pits impracticable.
 4800 Top of ridge 200 ft. above river, near E and N. desired.
 6200 Bottom of ravine 150 ft. below ridge, drains E. ascend.
 7200 S. of spur, 100 ft. above river, project S 70° E. desired.
 8200 Set a gray sand stone 16 x 10 x 8 ins. 11 ins. in ground for
 w. of sec. 26, 27, 34 and 35 marlled with 1 notch on S. and
 2 notches on E edges raised around stones 2 ft.
 base 1/2 ft. high N. of cor. Pits impracticable.
 land mountainous.
 Soil clay sand and gravel, 2nd and 3rd rates
 No timber.

Subdivision of T 8 N R 5 E - Continued

Mountainous land 8000 acres.

N. 89°57' E. on a random line bet. secs. 26 and 35

Set 1/4 acre cor.

Intersect N. and S. line 16th Mr. S. of the cor. sec. 25 & 26, 8526, 8525

Three or more

S. 89°50' W. on a true line bet. secs. 26 and 35.

On ascending land.

Spur, 200 ft. above sec. cor. projects S.E. ascend.

Set a gray sandstone 15x8x7 in 10 ins in ground for
1/4 acre cor. marked 1/4 on N. face, raise mound of stone
2 ft base 1 1/2 ft. high N. of cor. Pits impracticable

5.000 Bottom of draw, 100 ft below spur, drains S. 60° E. ascend

Spur 70 ft above, drain, projects S. 60° E. ascend

Bottom of draw, 60 ft. below spur drains S. E. ascend.

The cor. faces. 26, 27, 34, and 35.

Land mountainous

Soil, gravelly loam and stone 3rd and 4th rates
no timber

Mountainous land 79.800 acres

N. 002 3/4 N. bet. secs. 26 and 27.

On descending land.

100 Bottom of draw, 10 ft below sec. cor. drains S. 60° E. ascend

Top of ridge, near E and N. 200 ft. above sec. cor. descend.

Set a gray sand-stone 16x10x6 ins 11 ins in ground for
1/4 acre cor. marked 1/4 on N. face, raise mound
of stone 2 ft. base 1 1/2 ft. high. N. of cor. Pits impracticable

Bottom of gulch, 250 ft below ridge, drains S. 80° E. ascend

Set a gray sandstone 16x10x6 ins 11 ins in ground for
cor. of secs. 22, 23, 26, and 27. marked with 2 notches
on S. and E. edges, raise mound of stone 2 ft. base
1 1/2 ft high N. of cor. Pits impracticable

Land mountainous,

Soil sandy and gravelly loam
no timber

Mountainous land 8000 acres

Subdivision of 58ⁿR5^E - Continuous

	N. 89°50' E on a random line bet. sec. 23 and 26. Set tump 1/4 acre. cor.
79.90	Intersect N. and S. line 17 lbs n. of cor. of secs. 23, 4, 25 and 26. Thence w. w. n. S 89°57' W on a true line bet. secs. 23 and 26. On ascending land, Set a gray sand stone 18x10x7 ins 6 ins in ground for 1/4 acre. cor. marked 1/4 on N. face raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
43.00	Top of ridge 250 ft. above sec. cor. bears N 60° E and S 60° E.
65.00	Draw, drains S E. 100 ft. below ridge, accend.
79.90	The cor. of secs. 22, 23, 26 and 27. Land mountainous Soil, sand clay, and gravel, 2 nd and 3 rd rates Not timber Mountainous land 79.90 chs.

	N. 89°2' N. bet. secs. 22 and 23. On ascending land Top ridge 275 ft. above sec. cor. wagon road, base N 30° E and S 30° W. declined quick along side hill sloping N.
31.00	Top ridge 275 ft. above sec. cor. wagon road, base N 30° E and S 30° W. declined quick along side hill sloping N.
40.00	Set a gray sand stone 28x8x6 ins 21 ins in ground for 1/4 acre. marked 1/4 on N. face, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
68.00	Wagon road, base E and N. Thence slight accend along side
80.00	Set a gray sand stone 18x12x8 ins 12 ins in ground for cor. of sec. 14, 15, 22 and 23, marked with 3 notches on S and 2 notches on E edges, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable Land mountainous Soil, sand clay and gravel 2 nd and 3 rd rates Not timber Mountainous land 80.00 chs.

	N. 89°57' E. on a "random line bet. secs. 14 and 23. Set tump 1/4 acre. cor."
79.90	Intersect N. and S. line 17 lbs n. of cor. of secs. 13, 14, 23 and 24. Thence w. w. n. Set on a true line bet. secs. 14 and 23.

Subdivision of T. 8 N., R. 5 E.—Continued.

	On ascending land
2.0.00	Ridge, 175 ft. above sec. cor. wagon road, bears N. E. and S. W.
3.7.00	Head of draw 100 ft. below ridge, drains N., ascends gently
3.9.95	Set a gray sand stone 18x16x6 ins. in ground for 1/4 sec. cor.; marked 1/4 on N. face, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
7.2.00	Top of ridge 100 ft. above draw, bears N. 72° W. and S. 72° E. descended.
7.9.90	The cor. of secs. 14, 15, 22, and 23. Land mountainous Soil sandy and gravelly loam 2nd and 3rd rates no timber Mountainous land 7.9.90 chs.

	N. 0° 2' W. bet. secs. 14 and 15,
	On ascending land.
3.00	Top of ridge 50 ft. above sec. cor. bears N. 72° W. and S. 72° E. descended
7.00	Entire quarrying as timber bears E. and N.
4.0.00	Set a gray sand stone 16x12x6 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. Trees too small to mark
6.0.00	Bottom of ravine 650 ft. below ridge, spring branch 4 ft. wide lies. dep, drains E. Also bear quarrying arp, parallel to gulch.
7.9.00	Top of spur 225 ft. above ravine, projects E. descended.
8.0.00	Set a gray lime stone 16x8x8 ins. 11 ins. in ground for cor. of secs. 10, 11, 14, and 15, marked with 4 notches on S. and 2 notches on E. edge, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
	Land mountainous Soil sandy and gravelly loam and stone, 2nd 3rd and 4th rates Quarrying arp. timber, Mountainous or heavily timbered land 8.0.00 chs.
	October 8; At this cor., we set off 6 1/2' S. on the due arc of our of the instruments and at 11.5' am. I noted, when the sun on the meridian, the resulting lat is 41° 36' N

	East on a random line bet. cor. 11 and 14.
4.0.00	Set timber 1/4 sec. cor.

Subdivision of 5.8 N, R. 5 E.-Continued.

- 79.94 Intersect N. and S. line 26 1/4 Ms. N. of cor. faces 11, 12, 13 and 14.
These are near
N 84° 49' E. on a line line between 11 and 14.
Over ascending land
- 10.00 Top of spur 50 ft above cor. projects N descended
15.00 Small drainage, 50 ft. below spur
20.00 Top of ridge 60 ft. above ravine, near N and S, descended.
39.97 Set a gray sand stone 16x0x8 ins 11 ins in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N face, raised mound of stone 2 ft
base $1\frac{1}{2}$ ft. high N. of cor. Pit impracticable.
65.00 Bottom of ravine 600 ft below ridge, spring branch of the
wide 3 ins deep, drains N, ascended.
- 79.94 The cor. faces. 10, 11, 14, and 15.
Land mountainous
Soil; sandy loam, gravel and stone, $\frac{3}{4}$ and $\frac{4}{5}$ rates
No timber
Mountainous land 79.94
-
- N. 85° 2' W. W. faces. 10 and 11
Over descending land.
- 10.00 Bottom of ravine 200 ft. below sec. cor. drains E. ascended.
28.00 Thence along E slope, 200 ft above ravine,
40.00 Set a gray granite stone 16x16x14 ins 11 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raised mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pit impracticable
50.00 Thence descended on slope facing N 30° E.
80.00 Set a gray quartzite stone 20x14x6 ins 15 ins in ground
for cor. of faces 2, 3, 10, and 11, marked with 5 notches on
Sand 2 notches on E. edge, raised mound of stone 2 ft
base $1\frac{1}{2}$ ft. high N. of cor. Pit impracticable
Land mountainous
Soil gravel and stone, $\frac{3}{4}$ and $\frac{4}{5}$ rates.
No timber
Mountainous land 80.00 ch.
-
- 80.89 N. 84° 49' E. on a random line between 2 and 11,
4.00 Set stone $\frac{1}{4}$ sec. cor.
80.96 Intersect N. and S. line., 28 1/4 Ms. S. of cor. faces 1, 2, 11, and 12.
These are near

D. 89° 49' E. on a random line between 2 and 11,

4.00 Set stone $\frac{1}{4}$ sec. cor.

80.96 Intersect N. and S. line., 28 1/4 Ms. S. of cor. faces 1, 2, 11, and 12.
These are near

Subdivision of T. 8 N., R. 5 E.—Continued

	\$8959' N. on a true line bet. secs. 2 and 11.
On descending land.	
1.00	Bottom of ravine, spring branch 1 ft wide 1 in deep drains N. 30° E. ascend
11.50	Top of small ridge 100 ft above ravine bears N. and S. descend
16.00	Bottom of ravine, 50 ft. below ridge, drains N. ascend
27.00	Top of ridge 200 ft above ravine, bears N. and S. descend
40.00	Set a gray sand stone 20x2x8 in 15 in in ground for 1/4 sec. cor. marked 1/4 on N. face raise mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
47.00	Bottom of ravine, 500 ft below ridge, spring branch 5 ft wide 6 in deep, drains N. 30° E. ascend
7.00	Top of spur 500 ft above ravine, projection, descend
8.010	The cor. secs 2, 3, 10, and 11. Land mountainous Soil gravelly loam and stone, 3 rd and 4 th rates No timber Mountainous land 80.10 chs.

	N 60° 2' W. on a true line bet. secs. 2 and 3.
On steep descending land.	
16.50	Woodruff or 12 m. in Canon, 300 ft. below sec cor, curv 20 ft wide 1 ft. deep, drains N. 70° E. ascend
40.000	Set a gray sand stone 16x8x6 in 11 in in ground for 1/4 sec. cor. marked 1/4 on N. face; raise mound of stone 2 ft. base 1 1/2 ft high N. of cor. Pits impracticable.
68.00	Thence ascend along draw, draining S. 100° W.
75.80	Intersect 2 nd Standard Parallel North in N. dy. 87 ^{1/2} ft. 12.96 chs. S. 89° 2' W. of the standard cor of secs. 34 and 35 which is a sand stone 5x8x5 in above ground, marked and intended as described by surveyor general.
	Set a red sand stone 16x10x6 in 11 in in ground for closing cor. of secs. 2 and 3. marked C.C. on S, 2 grooves on E and 4 grooves on N. face, raise mound of stone 2 ft base 1 1/2 ft. high S. of cor. pits impracticable.
	Land mountainous Soil clay gravel and stone, 3 rd and 4 th rates. No timber Mountainous land 75.80 chs.

October 8, 1897.

Subdivision of T. 8 N., R. 5 E. - Continued

October 9, 1897. From the cor. of secs. 3, 4, 33, and 34 on S. side of Spur established by us Sept. 24, we run No. 62 N. W. of secs. 33 and 34.

On ascending land.

- 450 At wagon road, bears N. 75° E. and S. 75° N.
- 23.00 Top of spur 150 ft. above sec. cor. projects N. E. descend.
- 34.00 Bottom of ravine 10 ft. below spur, drains N. E. ascend
- 40.00 Set a gray sand stone 15 x 6 x 5 ins., 10 ins. in ground for $\frac{1}{4}$ acre. cor. marked $\frac{1}{4}$ acre N. E. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. E. cor. Pit impracticable.
- 48.00 Top of spur 150 ft. above ravine, projects S. 10° E. descend
- 50.00 Small draw, 10 ft. below, spur, drains S. 15° E. ascend
- 65.00 Top of ridge, 175 ft. above draw, bears N. 60° E. and S. 60° N. descend
- 70.50 Eastern pine and quaking asp timber, bear N. 60° E. and S. 60° N.
- 80.00 Set a gray sand stone 20 x 8 x 7 ins. 15 ins. in ground for cor. of secs. 27, 28, 33, and 34; marked with 1 notch on S. and 3 notches on E. sides, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. E. cor. Pit impracticable
Tree too small to mark.

Land mountainous

Soil sandy and gravelly down and stone $\frac{2}{3}$ rd and $\frac{4}{5}$ th native timber, pine and quaking asp.

Mountainous on heavily timbered land 8000 ft. c.s.

- 40.00 N. 89° 57' E. on a random line bet. secs. 27 and 34.
- 40.00 Set stump $\frac{1}{4}$ acre. cor.
- 8.000 Between north and south 7 $\frac{1}{2}$ ft. N. of cor. of secs. 26, 27, 34, and 35.
Thus we run
- 40.00 West on a line line bet. secs. 27 and 34.
- On ascending land.
- 11.50 Top of spur, 100 ft. above sec. cor. projects S. E. descend, also into quaking asp, parallel to spur.
- 40.00 A quaking asp, 16 ins. diam. for $\frac{1}{4}$ acre cor., we marked $\frac{1}{4}$ S. 27 on N. E. of 34 on S. sides, from which a quaking asp 18 ins. diam. bears N. 35° 46' dist. marked $\frac{1}{4}$ S. 27 B. S.
- A quaking asp 14 ins. diam., bears S. 39° 46' dist. marked $\frac{1}{4}$ S. 34 B. S.
- Also Head of draw, 100 ft. below spur, drains S. 60° E. ascend.
- 52.00 Top of ridge, 200 ft. above draw, wagon road, bear N. and S.

Subdivision of T.8 N, R.5 E.—Continued

- 66.00 Enter fine timber, bears N. and S.
 75.00 Draw, 250 ft below, ridge, drains N.W. assumed.
 80.00 The cor. of secs. 27, 28, 33 and 34.
 Land mountainous.

Soil sandy loam and stone $\frac{3}{4}$ and $\frac{1}{2}$ ratio.
 Timber, pine and quaking asp.

Mountainous or heavily timbered land 8000 chs.

October 9, At this cor. we set off $4^{\circ} 23' N$ on the lat., are, $6^{\circ} 51' S$ on the decl., are of one of the instruments and at 9^h 00^m a.m. determine a true meridian with the solar

$N^{\circ} 02' 37'' W$ bet. secs. 27 and 28.

Our descending land, through pine and quaking asp timber
 Draw, 60 ft. below sec. cor. drains N.W. assumed.

Sand, timber, bears E and N.

Top of spur, 100 ft. above draw, projects $N 60^{\circ} W$, descend.
 Also enter pine and quaking asp timber, bears E and N.

Set a gray sand stone 18×245 ins, 12 ins. in ground
 for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raised mound
 of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ ft. from cor. Pits impracticable
 A pine 10 ins. diam was 6.20 ft. dist marked
 $\frac{1}{4} S 27 B S$.

A pine 14 ins. diam was $N 10^{\circ} 37' .26$ ft. dist.
 marked $\frac{1}{4} S 28 B S$.

Bottom of ravine 400 ft. below spur, drains $N 60^{\circ} W$, assumed
 also have timber parallel to ravine.

Spur, 80 ft. above ravine, projects N. descend.

Draw, 40 ft. below, spur, drains N. assumed.

Spur, 60 ft. above draw, projects N. descend.

Set a gray sand stone $18 \times 10 \times 8$ ins 12 ins. in ground
 for cor. of secs 21, 22, 27, and 28, marked with 2 notches
 on S and 3 notches on E edges, raised mound of stone 2 ft
 base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ ft. from cor. Pits impracticable.

Land mountainous.

Soil sandy and gravelly loam, $\frac{2}{3}$ and $\frac{1}{3}$ ratio

Timber, pine and quaking asp.

Mountainous or heavily timbered land 8000 chs.

East on a random line bet. secs 22 and 27.

Subdivision of T. 8 N., R. 5 E. - Continued

- 44.00 Set a timber $\frac{1}{4}$ sec. cor.
 80.06 Intersect N. and S. line 14 miles S of cor. of secs. 22, 23, 26, and 27.
 Thus, $\frac{1}{4}$ sec.
 $\frac{1}{8} \text{ acre}$ N. on a timber line bet. secs. 22 and 27.
 On, descending land.
 15.00 Top of ridge 200 ft. above sec. cor. wagon road, near N. and S. line
 29.00 Entire pine and quaking asp. timberly N. and S.
 31.00 Swale, 200 ft. below ridge, drains N. Thus along
 on slope.
 40.00 Set a gray sand stone $2\frac{1}{4} \times 1\frac{1}{2} \times 10$ ins. 18 ins. in
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raised mound
 of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 A pine 30 ins. diam near S. 45 ft. dist marked
 $\frac{1}{4}$ S. 27 B. T.
 A quaking asp. 8 ins. diam. near N. 24 ft. dist.
 marked $\frac{1}{4}$ S. 22 B. T.
 65.00 Spur, projects N. also leave timber, near N. & S. line
 80.06 The cor. of secs. 21, 22, 27, and 28.
 Land-mountainous.
 Soil gravelly loam and stone 3rd and 4th natis.
 Timber, pine and quaking asp.
 Mountainous or heavily timbered land 8.0.0 b chs.

N. 0°2' W. bet. secs. 21 and 22.

On descending land.

- 3.00 Ravine, 50 ft. below sec. cor. drains S 70° N. ascend.
 30.00 Top of ridge 500 ft. above ravine, near E and N. descend
 34.00 Entire pine and quaking asp. timberly, near E and N.
 40.00 Set a gray sand stone $1\frac{3}{4} \times 7 \times 5$ ins. 8 ins. in ground for $\frac{1}{4}$
 sec. cor. marked $\frac{1}{4}$ on N. face, dry pits $18 \times 18 \times 12$ ins. N
 and S of cor. 3 ft. dist; raise mound of earth $3\frac{1}{2}$ ft. base
 $1\frac{1}{2}$ ft. high N. of cor. from which
 A quaking asp. 5 ins. diam near N. 20° E, 7 ft. dist.
 marked $\frac{1}{4}$ S. 22 B. T.
 A quaking asp. 6 ins. diam near N. 11 ft. dist marked
 $\frac{1}{4}$ S. 21 B. T.
 70.00 Lean timber mainly E. and N.
 75.00 Ravine 600 ft. below ridge, spring branch 3 ft. wide
 3 ins. deep, drains N. ascend.
 75.50 Wagon road, near E and N.

Subdivision of T. 8 N., R. 5 E. - Continued

8.000	<p>Set a gray sand stone $18 \times 16 \times 5$ ins, 12 ins in ground for cor. of sec. 15, 16, 21, and 22. marked T 8 N. on N.E.</p> <p>R. S. E. on S.E. faces, with 3 notches on S. and E. edges, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor. Pits impracticable.</p> <p>Land mountainous</p> <p>Soil gravelly loam and stone 3rd and 4th rates.</p> <p>Timber, pine and quaking asp.</p> <p>Mountainous or heavily timbered land 8000 chs.</p>
40.00	<p>N. 89° 54' E. on a random line bet. sec. 15 and 22.</p> <p>Set turf $\frac{1}{4}$ acre cor.</p>
80.20	<p>Intersect N. and S. line 7 1/2 ft. N. of cor. faces 14, 15, 23, and 23.</p> <p>Thence W. W. N.</p> <p>S. 89° 57' N. on a true line bet. sec. 15 and 22.</p> <p>On descending land on S.W. slope</p>
200.00	<p>Thence along S. slope.</p>
40.10	<p>Set a gray sand stone $20 \times 14 \times 8$ ins, 15 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor. Pits impracticable</p>
41.00	<p>Top of small spur, projects S.W. descend.</p>
80.20	<p>The cor. of sec. 15, 16, 21 and 22, about 550 ft. below sec cor 1 mile E.</p> <p>Land mountainous</p> <p>Soil, chirly, and gravelly loam 3rd rate</p> <p>No timber</p> <p>Mountainous land 80.2-0 also.</p>
21.00	<p>N 0° 2' N. bet. sec. 15 and 16</p> <p>On ascending land.</p> <p>Top of ridge 500 ft above sec cor. bears E. and N. descend.</p>
24.00	<p>Enter quaking asp timber, bearing E. and N.</p>
40.00	<p>Set a gray sand stone $18 \times 12 \times 5$ ins, 12 ins in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cor. Pits impracticable</p> <p>A quaking asp 16 ins. diam. bears $358^{\circ} E.$ $\frac{1}{4}$ of dist. marked $\frac{1}{4}$ S. 16 B.T.</p> <p>A quaking asp 10 ins diam. bears 91° $\frac{1}{4}$ of dist. marked $\frac{1}{4}$ S. 16 B.T.</p>

Subdivision of 5.8 N, R. 5 E. - Continued.

- 57.00 Bottom of ravine 300 ft below Ridge Branch st. ascertained,
also leave timber.
- 72.00 Top of spur, projects N. 20 ft above ravine, discerned,
also enter quaking asp timber.
- 8.000 Set a. gray sand stone 20 x 10 x 6 ins 15 ms in ground for
cor. of secs. 9, 10, 15, and 16, marked with 4 notches on S.
and 3 notches on E edges, raise mound of stone 2 ft.
base 1 1/2 ft high N. of cor. Pits impracticable.
Trees too small to mark.
- Land mountainous
Soil gravelly loam, and stone, $\frac{3}{4}$ and 4 th ratio.
Timber quaking asp.
Mountainous or heavily timbered land 8.000 chs.
- October 9: At this cor. we set off 15 1/4 S on the decl. arc
of one of the instruments and at 11^h 57^m a.m. L.M.T. ob-
serve the sun on the meridian, the resulting lat.
is 41° 26' N.
- N. 89° 57' E. on a random line bet. secs 10 and 15.
- 40.00 Set temp 1/4 sec. cor.
- 80.08 Intersect N. and S. line 9 links N. of cor. of sec 10, 11, 14 and 15.
Thence w. w. n.
- N. 89° 57' W. on a true line bet. secs 10 and 15.
On ascending land.
- 10.00 Enter quaking asp timber, bears N. and S.
- 28.00 Leave sand.
- 36.00 Top of ridge 300 ft above sec. cor. bears N. and S. discerned
- 40.04 Set a gray sand stone 16 x 10 x 6 ins 11 ins. in ground
for 11 sec. cor. marked 1/4 on N. face raise mound
of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
no trees within limits large enough to mark.
- 42.08 Enter quaking asp timber, bears N. and S.
- 50.00 Head of draw, 200 ft below ridge Branch N.W. thence
mainly level along N. slope.
- 76.00 Thence discerned on N. slope.
- 80.08 The cor. of secs 9, 10, 15 and 16.
- Said mountainous
Soil gravelly loam and stone $\frac{3}{4}$ and 4 th ratio.
Timber, quaking asp.
Mountainous or heavily timbered land 8.0.0 chs.

Subdivision of T.8 N, R.5 E. - Continued

	N 89° 2' W. int. secs. 9 and 10
1.00	On descending land, through quaking asp Bottom of ravine 150 ft. below sec. cor. drains N. around also lean timber. Creek 3 ft. wide
18.00	Enter mahogany, lean. Drained N.
20.00	Top of spur, 150 ft above ravine, projects N. drained
22.00	Lean mahogany, with pine timber near N. and S. W.
36.00	Woodruff or 1/2 mile Canon, 450 ft below spur, creek 20 ft wide 1 ft. deep, drains N. 35° E. also lean timber around.
40.00	Set a gray lime stone 18x10x6 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face raised mound of stone, 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
61.00	Top of spur, projects N 70° E. 250 ft above canon drained
72.00	Bottom of ravine 300 ft. below spur, creek 10 ft. wide 1 ft. deep, drains E. around.
80.00	The point for sec. cor. falls on rock in place 3 ft N. 88° by 2 ft S. 82° W. 4 ins above ground on which we Cut a cross (X) at exact cor. point for cor. of secs 3, 4, 9, and 10 marked with 5 grooves 3 and 3 grooves 8 across. raise mound of stone 2 ft. base 1 1/2 ft high N. of cor. Pits impracticable
	Land mountainous
	Soil, gravelly loam and rocky 3rd and 4th rates.
	Timber, pine, mahogany and quaking asp
	Mountainous or heavily timbered land 8000 ft.

	S. 89° 5' E. on a random line bet. secs. 3 and 10.
4.00	Set stump 1/4 sec. cor.
8.0.02	Intersect N. and S. line & like N. of cor. of sec. 2, 3, 10, and 11. There are two
	N. 89° 5' W. on a true line bet. secs. 3 and 10.
	On descending land.
36.00	Woodruff or 1/2 mile Canon 275 ft. below sec. cor. creek 20 ft. wide 1 ft. deep, drains N. 75° E. around
40.07	Set a gray sand stone 16x10x6 ins 11 ins in ground for 1/4 sec. cor. marked 1/4 on N. face raised mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
69.00	Spur, 250 ft. above creek, projects S. there along slope.
80.02	The cor. of secs. 3, 4, 9, and 10
	Land mountainous.

Submission of T. 8 N., R. 5 E. - Continued

	Silt, gravel and stone 4 th ratio no timber mountainous land 80.00 chs.
	N. 0° 37' on the standard sec. 3 and 4 on ascending land.
2.00	Thence along N. slope
27.00	Bottom ravine, about same elevation as sec. cor. spring width 1 ft wide 1 in. deep, drains S. 15° W. ascend
39.70	Top of spur, 150 ft above ravine, projects S. 80° E. descend
40.00	Set a gray lime stone 18 x 10 x 6 ins. 12 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raised mound of stones 2 ft base 1 1/2 ft high 7 ft cor. Pit impracticable
41.50	Bottom of small ravine, drains to ascend.
75.30	Intersection 2 nd Standard Parallel North on N. side of Tp. 13 1/4 chs S. 89° 29' W. of the standard cor. of sec. 33 and 34, which is a sandstone 3 x 8 x 5 ins in ground, medium and intense as described by Surveyor General Set a gray sand stone 18 x 11 x 8 ins, 9 ins. in ground for corner of sec. 3 and 4, marked C.C. on S. 3 grooves on E. and N. face, raised mound of stones 2 ft base 1 1/2 ft high 5 ft cor. Pit impracticable
	Land mountainous
	Silt, gravel and stone 3 rd and 4 th ratios
	No timber
	Mountainous land 75.30 chs.
	October 9, 1897

October 11, 1897: From the cor. of sec. #5, 32, and 33, on S. side
of Tp., established by us Sept. 24, no. one:

N. 0° 37' but sec. 32 and 33.

	Over descending land through heavy pine timber lean pine with quaking asp. timber, bears E. and N.
7.00	Bottom of ravine, 125 ft below sec. cor. drains N.E. Thence quoth arched along E. slope
8.50	Top of spur, 75 ft above ravine, projects N. E. abrupt drop quaking asp. timber
20.00	Set a gray sand stone 26 x 12 x 5 ins. 15 ins in ground for 1/4 acre, marked 1/4 on N. face, raised mound of

Subdivision of T. 8 N., R. 5 E. - Continued.

- stone 2 ft base $\frac{1}{2}$ ft high N.E. cor. Pits impracticable
 A fine $\frac{1}{2}$ ins. diam. max $360^{\circ} E.$, 10 ft dist, marked
 $\frac{1}{4} S. 33 B.T.$
- A fine 10 ins. diam max N. 3 ft dist, marked
 $\frac{1}{4} S. 32 B.T.$
- 41.50 Bottom of canon 300 ft below, spur, diam N. N. and 16 ft wide
 base, also lean timber parallel to canal.
- 61.50 Top of spur, projects $365^{\circ} N.$, 200 ft above, crust. accend.
- 7.000 Bottom of gulch 100 ft. below spur, diam $365^{\circ} N.$ accend
- 8.000 Set a gray sand stone 18 x 8 x 8 ins. 12 ins in ground
 for corf size 28, 29, 32, and 33, marked with 1
 notch on S. and 4 notches on E. edge raise
 mound of stone 2 ft. base $\frac{1}{2}$ ft. high N.E. cor. Pits impracticable
 A sand stone ledge 10 ft. high, max $7.80^{\circ} E.$, 37 ft
 dist marked with a cross (X) B.Q. at exact bearing.
 A sand stone ledge 10 ft. high, max $7.68^{\circ} N.$, 47 ft
 dist marked with a cross (X) B.Q. at exact bearing.
 and Mountainous
 Soil sandy and gravelly brown and stone, 2nd 3rd and 4th ratios.
 Timber, fine and青年 age.
 Mountainous or heavily timbered land 8000 ft.

- $N. 8957^{\circ} E.$ on a random line bet sizes 28 and 33
 Set stump $\frac{1}{4}$ sec. cor.
- 7.9.9.6 Intersect N and S line 14 ft N.E. cor. faces 27, 28, 33 and 34.
 Thence no rule.
- $N. 8957^{\circ} N.$ on a true line bet sizes 28 and 33.
 On ascending land, through fine and青年 age timber.
 Top of spur, 100 ft above, sec. cor. projects N. diam.
 Bottom of ravine, 75 ft. below spur, diam N. accend.
- 39.9.8 Set a gray sand stone 14 x 10 x 8 ins. 9 ins. in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone
 2 ft. base $\frac{1}{2}$ ft. high N.E. cor. Pits impracticable
 A fine 6 ins diam max $7.39^{\circ} N.$ dist, marked
 $\frac{1}{4} S. 28 B.T.$
- A fine 6 ins diam max $7.31^{\circ} N.$ dist, marked
 $\frac{1}{4} S. 33 B.T.$
- 43.00 Top of ridge, 150 ft above ravine, max $7.35^{\circ} N.$ and $51^{\circ} E.$
 Also lean timber parallel to ridge.
- 69.00 Ravine, 200 ft. below ridge, diam $360^{\circ} N.$ accend.

Subdivision of T.8 N., R.5 E.—Continued.

79.96	The cor. of secs. 28, 29, 32, and 33. Land mountainous Soil, sandy and gravelly loam, and stones $\frac{1}{2}$ to 3 inches. Timber, pine and quaking asp. Mountainous or heavily timbered land 79.96 acres. October 11; At this cor we set off 4123' N on the lat. arc, $7^{\circ} 16'$ for the decl. arc of one of the instruments and at 9:00 am. L.M.T. determine a true meridian with the solar.
	N or $3^{\circ} 37'$ N. betw. sec 28 and 29. On ascending land.
4.00	Top of spm, 70 ft above cor. projects 5.60° N. ascend Draw, on N slope 40 ft below spm, ascend.
13.00	Top of spm, 60 ft above draw, projects 7.68° N. ascend
22.00	Enter pine and quaking asp timber, parallel to spm.
23.00	Set a gray sand stone. 14x8x8 in. 9 ins. in ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N face, raise mound of stone 2 ft. 1 in.: $1\frac{1}{2}$ ft high $\frac{1}{4}$ of cor. This impracticable.
40.00	A quarry asp 8 in. diam. bears 8.73° N. dist. marked $\frac{1}{4}$ S. 28 B.T.
	A quarry asp 6 in. diam. bears 7.64° N. dist. marked $\frac{1}{4}$ S. 29 B.T.
47.00	Bottom of ravine 300 ft below spm, drains N.E. ascend quickly
64.00	Top of spm 100 ft. above ravine, projects 7.35° N. ascend
74.00	Enter heavy pine timber, then quaking asp. mark E. end $\frac{1}{4}$.
84.00	The point for cor fall on a rock in place 4 ft. sq. by 3 ft. abv ground, on which we Cut a cross (X) at exact cor. point, for cor of secs 20, 21, 28, and 29. marked with 2 grooves S and 4 grooves E of cross. from which A pine 16 in. diam. mark 7.70° E. 59 ft. dist. marked T.8 N. R.5 E. S. 21 B.T.
	A pine 14 in. diam. mark 8.43° E. 42 ft. dist. marked T.8 N. R.5 E. S. 28 B.T.
	A pine 20 in. diam. mark 8.29° E. 22 ft. dist. marked T.8 N. R.5 E. S. 29 B.T.
	A pine 8 in. diam. mark 7.31° N. 18 ft. dist. marked T.8 N. R.5 E. S. 20 B.T.
	Land mountainous

Subdivision of T. 8 N., R. 5 E. Continued.

	Soil sandy loam, gravel, and stone 2nd ^{3rd} and 4th ^{5th} rates. Timber, pine and quaking asp. Mountainous or heavily timbered land 80% chs.
4000	S. 89° 57' E. on a random line bet. secs. 21 and 28. Set temp $\frac{1}{4}$ sec. cor.
80.12	Intersection N and S line 1/2 mile S of sec. 8, bet. secs. 21, 22, 27, and 28. Thence W. W. W.
	S. 89° 58' W. on a true line bet. secs. 21 and 28
	Over descending land
8.02	Bottom of ravine, 10 ft below sec. cor. drains S. 70° W. ascend
14.00	Slope, 50 ft. above ravine, projects S. descended.
20.00	Draw, 75 ft. deep, drains S. descended.
27.00	Slope, 40 ft. above ravine, projects S. descended.
31.00	Draw, 80 ft. deep, drains S. descended.
40.06	Set a granite stone 15x10x6 ins. 10 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
48.00	Slope, 100 ft. above draw, descended.
65.00	Bottom of ravine 250 ft. below, spur. Spring branch 3 ft. wide bins. deep, drains N. 80° W., thence southward along N. slope, also enter heavy pine timber.
80.12	The cor. of secs. 20, 21, 28 and 29.
	Sand mountainous
	Soil, gravel and stone, 4 th rate.
	Pine timber
	Mountainous or heavily timbered land 80% chs.
	N. 60° 37' W. bet. secs. 20 and 21.
	Over descending land, through heavy pine timber
2.00	Bottom of ravine 75 ft. below sec. cor. spring branch 5 ft. wide bins. deep, drains N. also bear timber
11.00	Slope, 100 ft. above ravine, projects N. descended.
34.00	Woodruff or 1/2 mile cañon, 175 ft. below a spur, east 15 ft. wide 8 ins. deep, drains N. 30° E. ascended.
40.00	Set a gray lime stone 20x8x6 ins 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
75.00	Top of spur 500 ft. above cañon, projects E. descended.

Subdivision of T. 8 N., R. 5 E.—Continued.

78.45	Draw 50 ft below spm, drains E. around
8.00	Set a gray quartzite stone 18x10x6 ins 12 ins in ground for cor. of sec. 16, 17, 20, and 21. marked with 3 notches on Sand - notches on ledge raise mound mound of stone 2 ft base 1/2 ft high. Pits impracticable. Land mountainous
	Soil, very stony, 4 th rate
	Pine timber 2.00 chs.
	Mountainous land 8.00 chs.
	Upon the mountain side where this cor. stands, are quartz croppings said to carry small percentages of gold, silver and copper

	N. 89°58' E on a random line bet. secs. 16 and 21.
4.00	Set stump 1/4 acre. cor.
8.00	Intersection N. and S. line 9th N. of cor. of secs. 15, 16, 21, and 22 Thence up river
	N. 89°58' N. or a true line bet. secs. 16 and 21. One descending land along S. slope.
4.00	Set a gray sand stone 16x10x8 ins. 11 ins. in ground for 1/4 sec. cor. marked 1/4 ins. N face rain mound stone 2 ft base 1/2 ft high N. of cor. Pits impracticable
52.00	Way road, base N 80°37' and S. 80° E.
52.25	Bottom of ravine 350 ft below sec. cor. spring branch 3 1/2 miles 3 ins. dep., drains N 80°37'. continue descent.
63.00	Woodruff or 12 mile Cañon, 500 ft below sec. cor.; creek 20 ft wide 8 ins. dep., drains N. abrupt ascent.
80.00	The cor. of secs. 16, 17, 20, and 21. 550 ft. above cañon. Land - mountainous
	Soil granular loam and stony 3 rd and 4 th rates.
	No timber
	Mountainous land, 8.00 chs.

The sky is overcast and solar observations are
impossible.

	N 89°37' N. bet. secs. 16 and 17.
	One ascending land along E. slope.
9.00	Top of bank 350 ft. above sec. cor. project N. E. abrupt decl.
25.00	Willow Creek 400 ft. below spm, spring branch 10 ft. high

Subdivision of T.8 N, R.5 E - Continued.

	wide basin dep, drains N.E. ascends abruptly.
4000	Set a gray quartzite stone 3.0 x 1.2 x 1.0 ins, 23 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
45.00	Spur, 600 ft. above ravine around.
56.00	Bottom of gulch, 200 ft. below, spur, spring branch 2 ft. wide 1 m. deep, drains S 65° E. abrupt ascent.
8000	Set a gray sand stone 2.0 x 1.2 x 0.5 ins. 15 ins. in ground for 1/4 sec. cor. 8, 9, 16, and 17. marked with 4 notches on Sand E. edges, raised mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
	Land-mountainous
	Soil, stony 4 th rate
	Not timber
	Mountainous land 8000 chs.

	S 89° 58' E. on a random line bet. sec. 9 and 16.
4000	Set. limb 1/4 sec. cor.
79.96	Distinct N. and S. line 14-16 ft. S of confus: 9, 10, 15 and 16.
	Thence w. w. n.
	S. 89° 56' W. on a true line bet. sec. 9 and 16.
	Over descending land, through quarry asp timber
45.0	Lean quarry asp. timber, near N. and S.
30.36	Rodruff or 12-mile Cañon, 600 ft. below sec. cor. cut 20 ft. wide 10 ins. dep, drains N. 30° E. abrupt ascent.
34.98	Set a red sand stone 1.8 x 1.0 x 0.8 ins. 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
50.00	Top of spur, 600 ft. above cañon, projects S. E. descended.
57.00	Head draw, drains S E. 100 ft. below spur.
65.00	Top of spur 150 ft. above draw, projects S 50° E descended.
72.00	Ravine 100 ft. below spur, drains S 30° E ascended.
79.96	The cor. sec. 8, 9, 16, and 17.
	Land-mountainous
	Soil gravelly loam and stone 3 rd and 4 th rates
	Quarry asp. timber 450 chs.
	Mountainous land 79.96 chs

N. 89° 37' W. bet. sec. 8 and 9.

Sub-division S. 58th R. 5th E. - Continued.

- Over arced land
 6.00 Entu plateau, bare land N.
 22.00 Lean plateau, less land N. scrubbed, also enter
 quarries asp timber
 4.00 Set a gray sand stone 8x11x5 ins 12 ins in
 ground, for 1/4 acre cor. marked 1/4 on N face, raise
 mound of stone 2 ft. base 1/2 ft. high N of cor. Pitt impossible
 A quarry asp 8 ins. diam. max 34° S 24° W dist.
 marked 1/4 S 8 B.T.
 A quarry asp 7 ins. diam. max N 18° W dist.
 marked 1/4 S 8 B.T.
 45.00 Lean quarry asp, timber less E and N.
 58.00 Entu pine timber bare E and N.
 8.00 Set a sand stone 18x10x6 ins. 12 ins. in ground
 for cor. size 4, 5, 8, and 9, marked with 6 notches
 on S and 4 notches on E edges, raise mound of
 stone 2 ft base 1/2 ft high N of cor. Pitt impossible
 A pine 10 ins. diam. max S 26° E 15° W dist.
 marked S 8 N. R. 5 E. S. 9 B.T.
 A pine 2+ ins diameter S 83° N 27° W dist.
 marked S. 8 N. R. 5 E. S. 8 B.T.
 A pine 6 ins. diam. max N 86° N 24° W dist
 marked S. 8 N. R. 5 E. S. 5 B.T.
 No other trees within limits
 Land mountainous
 Soil granular and stony 3rd and 4th rates.
 Timber, pine and quarry asp
 Mountainous or heavily timbered land 8.00 chs.

- N. 8.00 E. on a ravine on lime mt. sizes 4 and 9.
 4.00 Set timber 1/4 acre cor.
 8.0.0 Enter N. and S. lim 4 to 8' on S surface 3, 4, 4 per 1/2
 inch or more
 S. 8.9 S. 8 N. on a lime mt. sizes 4 and 9.
 Along S. slope.
 2.00 Thrice ascend on N. slope.
 2.00 Ravine 150 ft. below sic. cor. spring branch 14 ft. wide
 1 in. deep, diam. 3. ascend
 5.00 Point of small sp. projects S.
 19.50 Bottom granular, creek, soils wide 1 ft deep. drains

Subdivision of T 8 N R 5 E - Continued

S 55° E. ascnd.

- 32.00 Top of spur, projects north 100 ft. above ravine, ascnd.
Small draw on N. slope. ascnd.
- 35.00 Silty lime stone $16 \times 8 \times 8$ ins. 11 ins. in ground for 1/4 sec
cor. marked 1/4 on N. face, raised mound of stone 2 ft
base 1/2 ft. high, N. of cor. Site impracticable.
- 48.00 Top of spur 450 ft. above creek, projects N. descnd.
- 56.00 Ravine 150 ft. below spur, drain N.
- 63.00 Spur 90 ft. above ravine, projects N. descnd.
- 80.10 The cor. of secs. 4, 5, 8, and 9. This cor. stands at edge of timber
land mountainous
- Soil, gravelly loam and stone 3rd and 4th rates
No timber
- Mountainous land 80.10 chrs.

N. 0° 34' W. on a true line bet. secs. 4 and 5.

On descending land, lean timber.

- 3.00 Ravine, 50 ft. below recor. creek 12 ft. wide 1 ft. deep
drains N. 80° E. ascnd.
- 7.50 Top of spur 60 ft. high projects S.E. thence along edge.
- 16.00 Ravine, spring branch 3 ft. wide 3 ins. deep drains S.E.
- 32.00 Spur, 400 ft. above ravine, projects S 30° N. descnd
- Set a gray sand stone $28 \times 12 \times 6$ ins. 21 ins. in
ground for 1/4 sec. cor. marked 1/4 on N. face, raised
mound of stone 2 ft. base 1/2 ft. high N. of cor. Site impracticable.
- 47.00 Bottom of ravine 100 ft. below spur, spring branch
2 ft. wide 3 ins. deep, drains S. N. ascnd
- 74.88 Intercept Second Standard Parallel on N. body of Tp. 1354 ch
S 84° 29' W. of the standard cor. of secs. 37 and 33, which
is a sandstone $5 \frac{1}{2} \times 2 \times 8$ ins. above ground marked
and witnessed as described by surveyor general.
- Set a gray sand stone $14 \times 12 \times 6$ ins. 9 ins. in ground
for closing cor. of secs 4 and 5, marked C. Cor. S.
with 4 grooves on E and 2 grooves on N. face
raise mound of stone 2 ft. base 1/2 ft. high
S of cor. Site impracticable
- Land mountainous
- Soil, gravelly loam and stone 3rd and 4th rates
No timber
- Mountainous land 74.88 chrs.

Subdivision of T. 57 N., R. 5 E. - Continued.

October 11, 1897.

- October 12, 1897. From the cor. of sec. 56, 31, 34, 32, on S. side of Sp. established by us Sept. 24, or near Nov. 4th. but sec. 31 and 32
are ascending land, through quaking asp. timber,
100 ft. ridge 50 ft. above sec. cor. mark E. and N. discern.
1.00 Clear quaking asp., with heavy fine timber, mark E. and N.
2.00 Set a gray sand stone 14 x 13 x 6 ins 12 ins. in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise mound of
stone 2 ft. base 1 1/2 ft. high 1/4 of cor. Pits impracticable.
A pine 10 ins. diam. near E. 2 1/2 ft. dist. marked
1/4 S 32 B 5.
This cor. stands at east edge of opening in
timber, no trees in sec. 31 within limits.
5.00 Bottom of ravine, 300 ft. below ridge, drains N 70° E. also
lean timber parallel to ravine, spring branch
10 ft. wide 5 ins. deep, ascend.
6.00 Top of sharp rocky spur, 350 ft. above ravine, projects E.
6.50 Bottom of ravine, 350 ft. below spur. drains S. E. around
7.00 Top of cliff, 100 ft. high, base E. and N. continue account.
8.00 Set a gray sand stone 15 x 10 x 5 ins 10 ins. in ground
for cor. of secs. 34 30 31 and 32 marked with 1 notch
on S. and 5 notches on E. edges, raise mound of
stone 2 ft. base 1 1/2 ft. high 1/4 of cor. Pits impracticable.
Land mountainous
Soil sandy loam, and very stony 2nd and 4th rates.
Timber pine and quaking asp.
Mountainous or heavily timbered land 8000 ft.
October 2: At this cor. we set off 41' 23" on the lat.
and 75' 7" S. on the decl. arc of one of the instruments
and at 8^h 50^m a.m. L. M. T. determine a true me-
ridian with the solar.

1.00 S. E. on a random line bet. secs. 29 and 32
2.00 Set a stump 1/4 sec. cor.
3.00 Intersect S. and S. line 34 ft. S. of cor. of sec. 28, 30, 31 and 33
These are our
S. S. S. E. on a true line bet. secs. 29 and 32

Subdivision of T. 8 N., R. 5 E. - Continued.

	On descending land.
15.00	Woodruff or 12 miles east, 350 ft. below sec. cor., crust 12 ft. wide 1 ft. deep, drains N. ascend. also many pine timber, parallel to crust.
25.00	Top of spur 300 ft. above crust, projects N., also lean pine enter quaking asp. timber, parallel to spur.
30.00	Bottom of ravine 150 ft. below, spur ascend
36.00	Top of spur, 100 ft. above ravine, projects N., also lean quaking asp. enter pine timber, descended.
40.02	Set a gray quartzite stone 12x10x6 ins. 8 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, rail mounted stone 2 ft. base 1/2 ft. high N. of cor. Pitt impractical A pine 12 ins. diam. near N 24 ft. dist. marked 1/4 S 29 B.T.
	A pine 10 ins. diam. near S 30 ft. dist. marked 1/4 S 32 B.T.
50.00	Bottom of ravine 350 ft. below, spur, crust 10 ft. wide 5 ins. deep drains N.E. ascend. also lean timber
60.00	Top of spur, 250 ft. above crust, projects S., descended.
65.00	Ravine, 100 ft. below spur, drains S. ascend
80.04	The cor. of secs 29, 30, 31, and 32 This cor. stands on Top of spur 300 ft. above ravine, projects S.E. Land mountainous Soil, gravelly loam and stone, 3 rd and 4 th rates. Timber, pine and quaking asp. Mountainous or heavily timbered land 8.04 chrs.

N. 0° 4' W. betw. secs. 29 and 30.

On descending land.

13.00	Head of ravine 75 ft. below sec. cor. drains S.E. ascend
23.00	Top of ridge near East N. 200 ft. above sec. cor. descended
34.00	Ravine 150 ft. deep, drains E. ascend.
40.00	Set a gray sand stone 14x12x6 ins. 9 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, rail mounted stone 2 ft. base 1/2 ft. high N. of cor. Pitt impractical.
41.00	Top of ridge, near N 70° E. and S 70° W. 150 ft. above ravine
45.00	Enter many pine timber, near East N.
73.00	Bottom of ravine 700 ft. below ridge, Spring branch 14 ft. wide 6 ins. deep, drains N. 60° E. also lean timber

Subdivision of T. 8 N., R. 5 E. - Continued

-	8.00	Set a gray sand stone 24 x 17 x 5 ins. 18 ins. in ground for cor. sicc. 19, 20, 29, and 30 marked with 2 notches on Sandstone edges. raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable Land mountainous Soil gravelly loam and stone 3 rd and 4 th rates Pine timber Mountainous or heavily timbered land 8.00 chs.
	4.00	N. 89° 56' E. on a random line betw. sicc. 20 and 29. Set temp. 1/4 sic. cor.
	7.9.88	Intersection N. and S. line 17 1/2 ins. N. of cor. sicc. 20, 29, and 30. Dense evergreen N. 89° 57' N. on a true line betw. sicc. 20 and 29. On mostly level land, along N. slope, through heavy pine timber
	8.00	Thence descend on N. slope, also bear. timber, N. & S.
	12.00	Woodruff or 1/2 Mile Cañon, 125 ft. below sic. cor., cross 15 1/2 ins. wide 1 ft. deep drains N. around
	39.94	Set a gray quartzite stone 15 x 10 x 7 ins. 10 ins. in ground for 1/4 sic. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
	43.00	Top of ridge, mark N. E. and S. W. 500 ft. above crst. descend also into pine timber.
	54.00	Bottom of ravine 200 ft. below ridge, drains N. around
	6.00	Sprn., 90 ft. above ravine, projects N. descend.
	72.00	Bottom of ravine 200 ft. below sprn., sprn. spring branch 14 1/2 ins. wide bins deep, drains N. 60° E. ascend, bear. timber
	79.88	The cor. of sicc. 19, 20, 29, and 30 Land mountainous. Soil, gravel and stone 3 rd and 4 th rates. Pine timber Mountainous or heavily timbered land 79.88 chs.
	9.00	N. 08° 47' N. betw. sicc. 19 and 20. On ascending land.
	18.00	Sand stone cliffs 40 ft. high, mark and N.
	22.00	Top of sprn. 500 ft. above sic. cor. projects S. E. descend Bottom of ravine, 75 ft. below sprn., drains E. around.

Subdivision of T. 8 N, R. 5 E - Continued

34.00	Top of ridge, 200 ft above ravine, near N 80° E and S 80° W. discord.
40.00	Set a gray sand stone 15x8x5 ins. 10 ins. in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N 80° cor. Pits impracticable
42.00	Enter dense growth of small quaking asp timbs near E and W.
51.00	Enter heavy pine timbs. near E and W.
68.00	Bottom of ravine, 400 ft. below ridge, drains W. E. also lean timbs near E and W.
75.00	Spur, 50 ft. above ravine, projects N.E. discord
78.00	Willow Creek Cañon 75 ft below spur, crust 10 ft wide bins dep, drains E. ascend.
80.00	Set a gray granite stone 15x7x7 ins 10 ins in ground for cor of secs 17, 18, 19, and 20. marked with 3 notches on S and 5 notches on E edges. raise mound of stone 2 ft. base 1 1/2 ft. high N 80° cor. Pits impracticable
	Land mountainous
	Soil, gravel and stone, 3rd and 4th rates
	Timbs, pine and quaking asp.
	Mountainous or heavily timbered land 8,000 chs.

40.00	S 80° E. on a random line betw sec 17 and 20
8.00	Set stump 1/4 acre cor.
8.00	Intersect N. and S line 14 ft. S of cor. of secs 16, 17, 20, and 21
	Thence nor more
	S 80° E. on a true line betw sec 17 and 20
	On an ascending land
6.00	Top of spur, 75 ft. above sec. cor. projects N 35° E. discord
1.00	Enter pine timbs, near W. and S. W.
2.00	Draw on N. slope; 200 ft below spur.
27.00	Small rocky spur, projects N, 50 ft above ravine, discord Also lean timbs, near N.E. and S.W.
33.00	Willow Creek Cañon, 450 ft below sec. cor., crust 10 ft. wide bins dep, drains N 60° E. ascend.
40.07	Set a gray granite stone 18x12x12 ins 12 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N 80° cor. Pits impracticable.
43.00	Spur, 150 ft. above crust, projects S discord.

Subdivision of T. 8 N., R. 5 E. - Continued

- 5.00 Rainier, 70 ft. below spur, drains S. ascend.
 - 52.00 Spur, 60 ft. above rainier, projects S. through the draw along S. 17, 18, 19, and 20.
 - 8.00 2. The cor. of secs. 17, 18, 19, and 20.
- Land mountainous
 Soil, very stony. 4th rate
 Pine timber
 Mountainous or heavily timbered land 8000 chs.
 October 12: At this cor. we set off 74° S. on the decl. arc of
 one of the instruments and at 11^h 5^m a.m. lost sight of the sun
 on the meridian, the resulting lat. is 41° 25' 7".
-

- N. 8049 R. 14 sec. 17 and 18.
- On ascending land.
- 16.00 Top of spur 30 ft. above river. projects S. N. descend.
 - 30.00 Bottom of rainier 100 ft. below spur, drains S. N. ascend.
 - 44.00 Set a red sand stone 24x12x6 ins 18 ins in ground for
 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone
 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
 - 45.00 Top of spur 200 ft. above river, projects S. N. descend.
 - 50.00 Head of draw, 50 ft. below a spur, drains S. N. ascend
 - 60.00 Enter plateau, 200 ft. above draw, bear E and N. also
 some scattering quantity asp. timber.
 - 8.00 Set a gray sand stone 32x13x9 ins 24 ins in ground
 for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on
 S. and 5 notches on E. edges. raise mound of stone 2 ft.
 base 1 1/2 ft. high N. of cor. Pits impracticable.
 A quantity asp. 16 ins. diam. bears S. 25° W. 253 chs.
 dist. marked T. 8 N., R. 5 E., S. 18 B.T.
 - A quantity asp. 8 ins. diam. bears N. 40° W. 247 chs.
 dist. marked T. 8 N., R. 5 E., S. 7 B.T.
 - No other trees within limits..

Land mountainous

Soil, sandy and gravelly loam and stone, 2nd, 3rd and 4th rates.
 Some scattering quantity asp. timber
 Mountainous land 8000 chs.

- 18.57' E on a random line betw. secs. 8 and 17.
- 4.00 Set temp. 1/4 sec. cor.
 - 50.15 Enter east land S. line 14 1/4 N. of cor. S. secs. 8, 9, 16, and 17.

Subdivision of T.8 N. R.5 E. — Continued.

Thus we run

N. 84° 57' W. on a true line betw sccs 8 and 17.

On ascending land.

7.00 Top of spur, projects S 30° E 75 ft above sec cor.

Outer quaking asp timber, bears N. and S.

27.0 Spring branch 1 ft. wide 1 in. dup, drains S. spring ch. N.

30.0 Bottom of ravine, about same elevation as spur, drains S.E. ascend.

40.0 7/8 A quaking asp 10 ins diam. for 1/4 sec. cor. we marked 1/4 S 8 on N. and S 17 on S. sides, from which A quaking asp. 8 ins. diam. bears N. 7/8 the dist marked 1/4 S 8 B.T.

A quaking asp 10 ins diam. bears S 65° E. 23 ft. dist marked 1/4 S 17 B.T.

51.00 Elevation plateau 200 ft above ravine, bears N. E. and S. W. Timber becomes scattering.

80.5 The cor. faces 7, 8, 17, and 18.

Land mountainous

Soil sandy and gravelly loam and stone ^{2nd 3rd} and ^{4th} rates. Quaking asp timber

Mountainous or heavily timbered land 80.15 chs.

N. 00° 47' W. bet. sccs. 7 and 8.

On plateau, through scattering quaking asp timber

Timber becomes heavy near E. and N.

40.00 Sit a gray sand stone 15 x 8 x 6 ins 10 ins in ground for cor. sec. cor. marked 1/4 on W. face, raise mound of stone 2 ft. base 1/2 ft. high N.W. of cor. Pits impracticable. A quaking asp 6 ins diam bears E 1 1/6 chs. dist marked 1/4 S 8 B.T.

A quaking asp 8 ins diam bears N. 4 1/2 ms. dist marked 1/4 S. 7 B.T.

48.00 Lean plateau, bears N. E. also lean timber, second.

62.00 Ravine 250 ft below plateau, drains N.E. ascend.

75.00 Top of spur, 160 ft above ravine projects N.E. second also under heavy pine timber, bears E and N.

80.00 Sit a gray quartzite stone 15 x 12 x 10 ins 10 ins in ground for cor. of sccs 5, 6, 7 and 8, marked with 5 notches on S. and E. edges, raise mound of stone 2 ft. base 1 1/2 ft. high N.W. of cor. Pits impracticable.

Subdivision of T.8N, R.5E.-Continued.

- A pine 24 ins diam. max $745^{\circ} E.$ 15 ft. dist.
marked T.8N, R.5E. S.5B.T.
A pine 12 ins. diam. max $543^{\circ} E.$ 15 ft. dist. marked
T.8N, R.5E. S.8B.T.
A pine 16 ins. diam. max $546^{\circ} N.$ 21 ft. dist. marked
T.8N, R.5E. S.7B.T.
A pine 10 ins. diam. max $745^{\circ} N.$ 26 ft. dist.
marked T.8N, R.5E. S.6B.T.

Sand mountainous

Soil sandy and gravelly loam, 2nd and 3rd rates

Timber, pine and quaking asp.

Mountainous or heavily timbered land 8.00 chrs.

- $5.89^{\circ} E.$ on a random line bet. sec. 5 and 8.
Set temp $1\frac{1}{4}$ acre cor.
Intersection N. and S. line of sec. 5 and 8.
Thence W. 1/2 mi. to true line bet. sec. 5 and 8
On N. slope, through pine timber.
Spring branch 2 ft. wide 1 in. dia., drains N. thence around
Set a gray quartzite stone 12x10x6 ins, 8 ins. in ground
for $1\frac{1}{4}$ acre cor. marked $1\frac{1}{4}$ on N. face, raise mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high N. cor. its impracticable
A pine 6 ins. diam. max $745^{\circ} N.$ 206 chrs dist. marked
 $1\frac{1}{4}$ S.5B.T.
True on S. side of line too small to mark.
Spur, 100 ft. above $1\frac{1}{4}$ acre cor. projects N. descend.
Draw, 100 ft. below spur, drains N. around.
Spur 125 ft. above draw, projects N. descend
Draw, 90 ft. below, spur, drains N. around
Spur 125 ft. above draw, projects N. descend
The cor. of sec. 5, 6, 7, and 8,
Sand mountainous.
Soil gravelly loam and stone, 3rd and 4th rates.
Pine timber,
Mountainous or heavily timbered land 8.00 chrs.

$7.004^{\circ} N.$ on true line bet. sec. 5 and 6.

On descending land, through pine timber.

Subdivision of T. 87th R. 5th E. - Continues

11.00	Bottom of ravine 200 ft. below a.s.c. spring branch 12 ft. wide 8 ins. deep, diam. 7.80 ft. ascend bank.
18.00	Top of spur, 175 ft. above creek, projects S.E. ascend
3.00.	Ravine, 60 ft. below spur, spring branch 2 ft. wide with 2 ins. deep. drain. E. ascend.
40.00	Set a gray sand stone 14x8x6 ins. 9 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable
46.00.	Top of spur, 150 ft. above ravine, projects S.E. thence along the slope.
74.00	Ravine, spring branch 3 ft. wide 2 ins. deep, drain E, 8 chs., thence S.
74.40	Intersect 2 nd Standard Parallel North on N. bdy. of Tp. 14.35 chs. S 89° 29' W. of stand and cor. of sec. 31 and 32, which is a sand stone 10x24x3 ins. above ground marked and situated as described by younger general. Set a gray quartzite stone 14x8x6 ins. 9 ins. in ground for the closing cor. of sec. 5 and 6 marked C. on S. with 5 grooves on E and 1 groove on N. faces, raise mound of stone 2 ft. base 1/2 ft. high S. of cor. Pits impracticable
	Land mountainous
	Soil, sandy and gravelly loam and stone, 2 nd , 3 rd , and 4 th ratios.
	Pine timber 8 chs.
	Mountainous or heavily timbered land 74.40 chs.

October 12 1897.

October 13, 1897: From the cor. of secs. 29, 30, 31, and 32, we run
S 89° 57' W. on a random line bet. secs. 30 and 31.

40.00	Set stump 1/4 sec. cor.
54.25	Intersect 1 st Guide meridian East. on N. bdy. of Tp. 5 W. on S. cor. of sec. 25, 30, 31, and 32 established by us Oct. 5.
	Thence W. WNW.
	N 89° 57' E. on a true line bet. secs. 30 and 31.
	On descending land through quarry w/ timber
14.25	Set a gray sand stone 16x8x8 ins. 11 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable A quarry w/ timber 8 ins. diam, base 2 ft. 34 lbs. diet marked 1/4 S. 30 B.T.

Subdivision of T.S. N.R. 5 E.

A quarry at b. 7 in diam. near $51^{\circ} 51' 31''$ N. lat.
marked 4-531B5.

- 2-03 Bottom of draw, 175 ft. below cor. drain S. ascend.
2-04 Spur, 100 ft. above draw, projects S. descend. bear timber
3-00 Draw, 100 ft. below a spur, drain S. ascend.
5-05 The cor. of secs. 29, 30, 31 and 32.

Land mountainous

Soil sandy loam and stony. 2nd and 4th rates.

Fairly good timber.

Mountainous or heavily timbered land 54.25 chs.

The sky is overcast and solar observations are impossible.

From the cor. of secs. 19, 20, 29, and 30, we run

$589^{\circ} 54' 51''$ on a random line between 19 and 30

4-00 Set a tree 1/4 sec. cor.

5408 Interest First Guide Meridian E. on 3rd bdy of Twp. 20 N. & S. of cor
of secs 19, 20, 29, and 30, established by us Oct. 5.

Hence we run

$589^{\circ} 53' E.$ on a true line between 19 and 30

On descending land, through scattering fine timber

1-00 Bottom of ravine, 175 ft. below cor. cor., drain S.E. ascend
Also bear timber

1-01 Set a gray sand stone 24 x 8 x 5 in. 18 in. in ground for
1/4 sec. cor. marked 1/4 on N. face, surrounded by stones of
various sizes. 1/4 sec. cor. fits impracticable

3-00 Top of spur, 100 ft. above ravine, projects S. descend.

4-00 Bottom of ravine 275 ft. below spur, drain S. ascend.

4-00 Spur 40 ft. above ravine, projects S. steep descent.

5-08 The cor. of secs. 19, 20, 29 and 30.

Land mountainous

Soil gravelly loam and stone 3rd and 4th rates

Some scattering fine timber

Mountainous land 54.68 chs.

From the cor. of secs. 17, 18, 19, and 20, we run

$589^{\circ} 53' 51''$ on a random line between 18 and 19.

4-00 Set a tree 1/4 sec. cor.

5-05 Interest 1st Guide Meridian E. on 3rd bdy. of Twp. 20 N. & cor
of secs 13, 18, 19, and 24, established by us Oct. 5.

Subdivision of T. 8 N., R. 5 E. - Continued

	Thick iron rnm S. 89° 58' E. on a true line bet. secs. 18 and 19.
13.85.	Our guth dissect along steep N slope, thony fine timber Set a gray sand stone 18x12x6 ins 12 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face, rain rounded of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable A fine 36 ins diam tree near N. 32 ft. 15 ft. dist. marked 1/4 S. 18 B.T. A fine 12 ins diam tree S. 70° E. 9 ft. dist. marked 1/4 S. 19 B.T.
51.00.	Willow Creek Caeon, 175 ft. below sec. cor. creek 10 ft. the wide 6 ins. dep, drains S.E., ascend. Also bear timber bearing N.W. and S.E.
53.85	The cor of secs 17, 18 1/2, and 20 Land mountainous Soil granly loam and stone 3 rd and 4 th rates. Pine timber Mountainous or heavily timbered land 53.85 chs.

	From the cor of secs 7, 8, 17, and 18, iron rnm N. 89° 58' W. on a random line bet. secs 7 and 18.
40.00	Set temp 1/4 sec. cor.
53.63	Interest 1 st Grade Meridian E. on N. bdy of ff. 9 chs. S. of cor of secs 7, 1/2, 13, and 18, established by us Oct. 5 Thick iron rnm S. 89° 52' E. on a true line bet. secs. 7 and 18. Our, ascending land.
13.6.3	Set a gray sand stone 20x10x5 ins 15 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, rain rounded of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
19.00	Enter quarrying asf timber bearing N and S.
23.50	Enter plateau, bearing N.E. and S.W.
53.63	The cor of secs 7, 8, 17, and 18. Land mountainous Soil, granly loam, 3 rd rate Timber quarrying asf. mountainous land 53.63 chs.

From the cor. of secs. 5, 6, 7, and 8. iron rnm

Subdivision of T. 8 N., R. 5 E. - Concluded.

- N. 89⁵²' 7". on a random line bet' secs 6 and 7.
46000 Sit a msp. 1/4 acre cor.
- 53.45 Intersect 1st Grade midian E. on N. bdy of Sp. 14 rods.
N. of cor. faces 1, 6, 7, and 12. established by us Oct. 5.
Thereby we run
N. 89⁵⁴' 8". on a true line, bet' secs 6 and 7.
On discarding land.
- 13.45 Sit a gray quartzite stone 16 x 8 x 5 in 11 in in ground
for 1/4 acre cor. marked 1/4 on n. face, raised mound of
stone 2 ft. base 1 ft. high, N. of cor. Pits impracticable
- 26.50 Bottom of ravine, 300 ft. below sec cor. cut 12th 1/2 wide
8 in. deep, drains N. 60° E. ascends also with
fine timber parallel to cut.
- 53.45 The cor of secs 5, 6, 7, and 8.
Sand mountainous,
Soil gravelly loamy, and stone 3rd and 4th rates.
Pine timber
Mountainous or heavily timbered land 53.45 chs.
- October 13, 1897.

General Description -

This township contains only mountainous land
the soil of which ranges from very stony (4th rate) to
a sandy loam (2nd rate). Agriculture could not be
carried on in any part of the township. The soil is
capable of producing an abundance of grass, but the
land is overstocked with sheep and cattle.

Pine and quaking asp timber timber etc to
be found in goodly sized patches in the west
part of the township.

The water of the township is clear and cold, and
is ample for any purpose it is likely to be used.

In sec. 9, 16, 17, 20, 21, and 29, there are quartz
croppings, said to contain small percentages
of gold, silver, and copper, and some claim more,
but there was nothing that affected the results
of our instruments. A little prospecting has
been done with some of the dredges in the creeks
mentioned, but there are not sufficient indications to
return these sec. as mineral land.

Frank E. Baxter
William B. Dougall
U.S. Deputy Surveyor

Volume

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____

day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Frank E. Barley & William B. Dougall
The foregoing field notes of the survey of *The Subdivision of
Township & North Range 5 East of the Salt Lake
Base Meridian, Elkhorn*, 189_____,

executed by *Frank E. Barley & William B. Dougall*,
under his contract No. *104*, dated *July 21st, 1897*, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Bl

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-247

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

West and North Boundaries

8

Township No 7 North Range No. 4 Eastof the Salt Lake Base and Meridian,
In the State of Utah.

AS SURVEYED BY

Frank E. Baxter and William G. Dougall, United States Deputy Surveyors,
Under his Contract No. 214, dated July 21, 1897

Survey commenced October 14, 1897

Survey completed October 16, 1897

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West from S. 30° E. 6-00-30'
 North " " 5-62-00' / 11-62' 30'

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chairman
Thomas W. Balliday	Chairman
John W. Striper	Chairman
James W. Welsh	Chairman
James Stark	Memberman
David H. Graw	Memberman
Walter W. McLaughlin	Announcer
Thomas Blates	Announcer
George M. Dougall	Flagman
Charles Lallis	Flagman

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BOOK A-247

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pine, either by striking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chainman

....., Chainman

Subscribed and sworn to before me this }
day of , 189 }



We, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

....., Moundman

....., Moundman

Subscribed and sworn to before me this }
day of , 189 }



We, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Axman

....., Axman

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this }
day of , 189 }



West Boundary of T.7 N, R.4 E.

Suny commenced October 14, 1897, and executed with two N and S. E. Guly light mountain transits - no number - each with solar attachment. The horizontal limb of each is provided with two double micrometer placed opposite to each other, reading to single minutes of arc, which is also the least count of the minutes of the latitude and declination. arcs.

The instruments were examined tested on the true meridian at Salt Lake City, found correct and were approved by the Surveyor General for Utah, August 2, 1897.

We examine the adjustments of the transits and correct the level and collimation errors, then to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris as follows:-

At the cor of Twp. 6 and 7 N, R. 3 and 4 E. which is a lime stone 6x8x6 ins above ground, properly marked and intersected, latitude $41^{\circ}17'N$, longitude $111^{\circ}33'W$. we set off $41^{\circ}17'N$ on the lat. arc, $8^{\circ}24'S$ on the decl. arc of one of the instruments and at $3^{\text{h}} 50^{\text{m}}$ p.m. determine with the solar, a true meridian and mark a point there of or a plug driven in the ground 5 chs N of cor.

With the second instrument placed over the same initial point we set off $41^{\circ}17'N$ on the lat. arc, $8^{\circ}24'S$ on the decl. arc, and at $3^{\text{h}} 50^{\text{m}}$ p.m. determine with the solar, a true meridian and mark a point there of on the stake already set 5 chs N of our station. This point falls 0.2 ins west of that of the 1st instrument.

At $12^{\text{h}} 12^{\text{m}}$ by our watch which are $26^{\text{m}} 12^{\text{s}}$ fast of LMT we observe Polar at upper culmination with the 1st instrument, in accordance with the Manual of Instructions, and mark the true meridian thus determined, by a pencil mark on the stake already set 5 chs. N of our station. This mark falls 0.2 ins east of the mark determined by the solar of the 1st instrument and "

N. Boundary of 57 N R + E - Continued

0.2 ins east of that of the 2nd instrument

October 14, 1897.

October 5, 1897: At 8th a.m. we set off 41° 7' N on the 1st sec., 84° S on the decl. arc of the 1st instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already at 5 chs N of our station. This mark falls identical with that of the true meridian established by the Polaris observation.

At 8th a.m. we set off 41° 7' N on the lat. arc, 84° S on the decl. arc of the 2nd instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already at 5 chs N of our station. This mark falls 0.2 ins East of the true meridian established by the Polaris observation.

The solar apparati by p.m. and a.m. observations define positions for true meridians, respectively about 0' 11" west and identical with the true meridian established by the Polaris observations - with the 1st instrument, and 0' 2" west and 0' 11" east of the same with the 2nd instrument, therefore we conclude the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian at 8th 30^m a.m. is 71° 7' 19" N, the angle thus determined required by the table, page 150, gives the mean mag. decl. 17° 16' E.

The margin at the cor. of 5th and 7th R.R. 3 and 4 E, here to fore described

There are now

North on a random line, along N. bdy of 5.7 N R 4 E., setting temp 1+ sec and sec. sec. at alternate intervals of 46.000 ft and at 460.36 chs, intersect the S. bdy. of 5.7 N R 3 E. bdy 5.7 N R 3 and 4 E. which is a sand stone 5+5-5 ins above ground, marked outcrops as described by author general. The falling surface to a constant of one inch per mile, which does not change the nominal course of the line, therefore we run.

Abdy. of 5.7 N, R. 4 E. - Continued

	South on a true line along Abdy of 5.7 N, R. 4 E. at. m. 1 and b.
On descending land, through scattering quaking asps.	
13.30	Bottom of draw, 200 ft below top cor. drain S. 30° E. ascend.
253.6	Top of spur, 75 ft. above draw, projects E. descend. level land
40.36	Set a gray quartzite stone 18x10x7 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high 1/2 of cor. Pit impracticable
65.05	Bottom of ravine 350 ft below spur, drains S. 35° N. ascend
80.30	Set a brown quartzite stone 18x8x8 ins. 12 ins in ground for cor of secs 1, 6, 7 and 13, marked with 1 notch on N and 5 notches on ledge, raise mound of stone 2 ft. base 1 1/2 ft. high 1/2 of cor. Pit impracticable Land mountainous Soil, sandy and gravelly loam, 2 nd and 3 rd rates. Some scattering quaking asps. Mountainous land 80.30 chs.

	South bet. secs 7 and 13
On ascending land.	
9.50	Top of spur 90 ft above sec. cor. projects N. ascend along side hill sloping N.
40.05	Set a gray fine stone 18x10x6 ins. 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high 1/2 of cor. Pit impracticable a pond 2 chs. diam. max S. 80° N. + chs. dist. Thus ascend along N. slope.
59.05	Top of ridge, 200 ft above 1/4 sec. cor. bears N. E. and S. N. descend
72.00	Bottom of draw, 200 ft below ridge drains S. 30° E. ascend.
80.00	Set a gray sand stone 18x8x8 ins. 12 ins in ground for cor of secs 7 1/2 13 and 18, marked with 2 notches on N and 4 notches on ledge, raise mound of stone 2 ft. base 1 1/2 ft. high 1/2 of cor. Pit impracticable This cor stands on top of spur 75 ft. above draw, projects S. 80° E.

Land mountainous.

Soil gravelly and stony 3rd and 4th rates

No timber

Mountainous land 80.00 chs.

October 15: At this cor. we set off 840' S. on the decl. as
of one of the instruments, and at 11:56 am. lost.

West Boundary of T.77, R.4 E. - Continued

Sum the sum on the miles in the resulting table is 42.7

South W. side, 13 and 18.

Our descending land.

- 7.00 Draw, 70 ft. below spur, drains E. ascend
Spur 70 ft. above draw, projects E. descend
32.00 Bottom of gulch, 350 ft. below spur, drains E. ascend
58.00 Spur, 70 ft. above gulch, projects E. descend
4.00 Set a blue limestone 16x10x8 ins. 11 ins. in ground, for cor.
rec. marked 1/4 on N. face, raise mound of stone
2 ft. base 1/2 ft. high N. of cor. Pit impracticable
55.00 Cliff 40 ft. high base N. East S.W.
60.00 Gray road, base N. East S.W.
62.00 Bottom of deep ravine, 550 ft. below spur, Branch of Ogallala
River 5 ft. wide 4 ins. deep, drains S.E. ascend
8.00 Set a gray limestone 18x10x6 ins. 12 ins. in ground
for cor. of secs. 13, 18, 19, and 24. marked with 3 matches
on N. and S. edge, raise mound of stone 2 ft. base 1/2 ft.
high N. of cor. Pit impracticable, soft above ravine.
Land mountainous
Soil, very stony, 4th rate.
No timber
Mountainous land \$0.00 chs.

South W. side, 19 and 24.

Our ascending land.

- 11.00 Spur 200 ft. above rec. cor., projects N. W. descend
15.00 Swale on N. slope, 40 ft. below a spur, ascend
Also with fine timber, base N. East S.W.
37.00 Several pine timber, same vicinity
38.00 Sharp rocky ridge, 800 ft. above rec. cor. base E. and N.
The point for 1/4 rec. cor. falls on a rock in place left
N. and S. x 2 ft. East 1/4 x 3 ft. above ground, on which we
Cut a cross(x) at exact cor. point, for 1/4 rec. cor.
marked 1/4 N. of cross, raise mound of stone
2 ft. base 1/2 ft. high N. of cor. Pit impracticable
Occured along steep S.E. slope.
52.00 Spur, on S.E. slope, projects S.E. about descent
56.00 Cliff 250 ft. high, base East N.

West Boundary of T. 7 N., R. 4 E. - Continued.

72.00	Bottom of deep ravine 850 ft below ridge, drains NW. Wagon road in bottom, abrupt ascent.
8.00	The point for sec. cor. falls on rock in place 8 ft E & N x 6 ft. N and S x 4 ft above ground, on which we Cut a cross (X) at exact cor. point for cor. of sec. 19, 24, 25, and 30, marked with 2 grooves on S and 4 grooves N. sides of cross. raise mound of stone 2 ft. base 1 1/2 ft. high W of cor. Pits impracticable.
	Land mountainous
	Soil granitic loam and very stony, 3 rd and 4 th ratio
	Pine timber
	Mountainous or heavily timbered land 8.00 chs.

	South, bet. secs. 25 and 30
	On ascending land.
10.00	Enter fine hillside timber, trees E and N.
29.00	Same same, same bearing.
38.00	Top of ridge 950 ft. above sec. cor. mark N 70° E and S 70° E.
40.00	Set a thin lime stone 18 x 1 1/2 x 10 ins. 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft high W of cor. Pits impracticable.
51.00	Cliff 200 ft. high trees E and N.
58.00	Swale, 500 ft below ridge, drains S and ascend.
62.75	Slope, 100 ft above swale, projects S. descent
70.00	Bottom of gulch, 200 ft below apex, drains E and descend.
8.00	The point for sec cor. falls on rock in place, 30 ins diam. by 20 ins above ground, on which we Cut a cross (X) at exact cor. point for cor. of sec.
	25, 20, 31, and 36, marked with 1 groove on S and 5 grooves on N sides, raise mound of stone 2 ft. base 1 1/2 ft high W of cor. Pits impracticable.
	Land mountainous
	Soil, very stony, 4 th ratio
	Timber, fine hillside pine
	Mountainous land 8.00 chs.

	South, bet. secs 31 and 36
	On ascending land.
3.00	Slope, projects S.E. 25 ft. above sec. cor. almost descent

North Boundary of T.7 N., R.4 E. Concluded

- 30.45 To N. edge of box gorge, 600 ft. below sec. cor. To continue chaining across this gorge is practically impossible, thus far, at this point we set a gray lime stone $2 \times 16 \times 8$ in, 15 in. in ground for witness cor. to $\frac{1}{4}$ sec. cor. marked W.C. $\frac{1}{4}$ S. on N. face raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable Point for triangulation
- 39.00 Bottom of box gorge, 350 ft below W.C. Branch of Caledonia 15 ft wide 6 in. deep, swift current, chains N.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls among inaccessible sheltering cliffs on S. side of crmt.
- To determine the dist across gorge we set a flag on top of cliff on S. side of gorge; then measure a base, W. 1500 chs, to a point from which the flag, bears S. $49^{\circ} 17' E.$, from the flag the N. end of base bears N. $49^{\circ} 17' W.$ therefore the dist. is cot. $49^{\circ} 17' \times$ base or $0.86064 \times 15.00 = 12.91$ chs. which added to 30.45 make
- 43.36 To S edge of box gorge about same elevation as N. edge Set a gray lime stone $18 \times 16 \times 8$ in., 13 in. in ground for witness cor. of $\frac{1}{4}$ sec. cor. marked W.C. $\frac{1}{4}$ S. on N. face, raised mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable Abrupt ascent.
- 47.00 Enter many pine timber bearing E. and N.
- 72.00 Top of ridge, about 1800 ft above gorge, tree Eucat. decud also have timber.
- 80.00 The cor. of Tps. 6 and 7 N., Rs. 3 and 4 E.
Land mountainous,
Soil, very stony 4th rate
Pine timber
Mountainous or heavily timbered land 8.00 chs.

October 15, 1897.

North Boundary of T.7 N., R.4 E.

October 16, 1897, From the cor. of Tps. 7 and 8 N., Rs. 3 and 4 E. here-to-for described, run northward on a random line, along N. bdy. of T.7 N., R.4 E., setting stumps $\frac{1}{4}$ sec and sec. cor. at alternate intervals of

North Boundary of T.7 N., R.4 E. - Continued.

- 4000 shs.; and at 462.00 chs. intersect 1st Guide
Meridian E. 80° W. S. of the cor. of Tps 7 and 8 N. Rr
4 and 5 E. established by us Sept 24. The falling
answers to a correction of 2° 06' or (practically) 14 ft. per
mi. mile counting from the N.W. cor. of the Tp. there-
fore we run
- S 89° 54' N. on a true line betw. secs 1 and 36.
- On ascending land, through quarries as follows:
- Wagon road, secs 7 and 8.
- Top of ridge, 100 ft. above Tp cor. bears S 30° E. and N. Hence
along top ridge.
- Three ridge bears S. N. E. discord.
- Set a gray fossil limestone 18 x 9 x 6 ins. 12 ins. in ground
for 1/4 sec. cor. marked 1/4 mi. N. face, raised mound of
stone 2 ft. base 1 1/2 ft. high N. of cor. Site impracticable.
A quarry asp 8 ins. diam. bears N 21° W. 15 ft. dist.
marked 1/4 S. 36 B.T.
- A quarry asp 10 ins. diam. bears S 61° N. 83 ft. dist.
marked 1/4 S. 1 B.T.
- Bottom of ravine 100 ft. below ridge, drains N. assumed
Span, projects N. 50 ft. above ravine. discord.
- Ravine, 250 ft. below span, drains N. assumed.
- Set a gray graniteite 18 x 11 x 7 ins. 12 ins. in ground
for cor. of secs 1, 2, 3, 5 and 36. marked with 1 notch on E
and 5 notches on N. edge. raised mound of stone 2 ft. base
1 1/2 ft. high N. of cor. Site impracticable.
A quarry asp 10 ins. diam. bears N 21° E. 15 ft. dist.
marked S. N. R. 4 E. S. 36 B.T.
- A quarry asp 9 ins. diam. bears S. 63° E. 98 ft. dist.
marked S. 7 N. R. 4 E. S. 1 B.T.
- A quarry asp 10 ins. diam. bears S 70° N. 59 ft. dist.
marked S. 7 N. R. 4 E. S. 2 B.T.
- A quarry asp 12 ins. diam. bears N 51° W. 111 ft. dist.
marked S. 8 N. R. 4 E. S. 35 B.T.
- Land mountainous
- Soil sandy and gravelly loam, $\frac{2}{3}$ rd and $\frac{3}{4}$ th slate.
- Quarry as follows
- Mountainous or heavily timbered land 8000 shs.

S 89° 54' N. betw. secs. 2 and 35

North Boundary of T.7 N. R.4 E. Continued ..

	On ascending land through quaking asp timber.
3.00	Slope 50 ft. above sec. cor. projects N. descend.
11.00	Ravine, 100 ft below, slope, spring branch in middle wide 1 in. deep, drains N. & ascend.
30.00	Top of ridge, divide between Ogallala River and Bear River. drainage, 200 ft. above ravine, bears N and S. descend.
34.00	Mud road, bears N and S.
40.00	Set a gray quartzite stone 14x10x6 ins. high in ground for 1/4 sec. cor. marked 1/4 on N face, raised mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pits impracticable. A quaking asp 14 ins. diam. bears N 58° W 1.2 m. dist. marked 1/4 S. 35 B.T. A quaking asp 14 ins. diam. bears S 40 W dist. marked 1/4 S. 2 B.T.
60.00	Leave quaking asp timber bears N. E. and S. W.
8.00	Set a gray sand stone 12x8x8 ins. 8 ins. in ground for cor. of sizes. 2, 3, 3 1/2 and 3 1/2, marked with 2 notches on E and 4 notches on N edge, raised mound of stone 2 ft. base 1 1/2 ft. high N of cor. Pits impracticable. Land mountainous Soil, sandy loam, 2nd rate, Quaking asp timber Mountainous or heavily timbered land 8000 ft.
Octobr 16:	At this cor., we set off qd 11 S. on the decl. axis of one of the instruments, and at 11 ^h 55 ^m a.m. LMT. obsen the sun on the meridian, the resulting lat is 41° 35' N

41° 35' N. Lat. acc. 3 and 34.

Over descending land.

12.00	Bottom of swale 60 ft below, sec. cor., spring branch 2 ft. wide 1 in. deep, drains S, ascend.
20.00	Cuts through quaking asp timber, bears N and S.
40.00	Set a gray sand stone 18x12x5 ins 1 1/2 ins in ground for 1/4 sec. cor. marked 1/4 on N face, from which A quaking asp 9 ins diam. bears N. 20 W. dist. marked 1/4 S. 34 B.T.
	A quaking asp 14 ins diam. bears S. 5 W. dist. marked 1/4 S. 3 B.T.
55.00	Top of ridge 200 ft. above swale, bears N. 30 E and S. 30 E.
80.00	Set a gray quartzite stone 18x6x10. ins 1 1/2 ins in

North Boundary of T.7 N., R.4 E. - Continued

- ground for cor. of secs. 34, 33, and 34, marked with 3 notches on E. and W. edges raised mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable. A quarrying asp. 6 ins. diam. bears N. 65° E. 2 chs dist. marked T.8 N., R.4 E., S.34 B.T.
- A quarrying asp. 6 ins. diam. bears S. 61° E. 2 10 chs dist. marked T.7 N., R.4 E., S.33 B.T.
- A quarrying asp. 10 ins. diam. bears S. 68° N. 39' 11" dist. marked T.7 N., R.4 E., S.4 B.T.
- A quarrying asp. 6 ins. diam. bears N. 44° 31' 17" W. dist. marked T.8 N., R.4 E., S.33 B.T.

Sand mountainous

Soil, sandy loam, 2nd rate

Quarrying asp. timber

Mountainous or heavily timbered land 8.000 chs.

S.89° 47' N. bet. secs 4 and 33.

On descending land through quarrying asp.

Swale 200 ft below ridge, diam. N. ascend.

Spur, 50 ft above swale, projects N. descend.

Bottom of ravine, 200 ft. below spur, diam. S. 75° N. ascend.

Silt a gray quartzite stone 14x10x6 ins. 9 ins in ground for 1/4 acre cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable. A quarrying asp. 4 ins. diam. bears N. 45° N. 95' 11" W. dist. marked 1/4 S.33 B.T.

A quarrying asp. 6 ins. diam. bears S. 38° E. 198 chs dist. marked 1/4 S.4 B.T.

52.25 Top of spur 200 ft. above ravine, projects S. W. about 15' descend.

63.00 Lean quarrying asp. with fine timber bearing N. and S.

8.000 Silt a brown lime stone 40x20x20 ins 30 ins in ground for cor. of secs 4, 5, 3 2, and 33. marked with 2 notches on N. and 4 notches on E. edges, raise mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable. A pine 14 ins diam. bears N. 34° E. 58' 11" W. dist. marked T.8 N., R.4 E., S.33 B.T.

A pine 18 ins diam. bears S. 55° E. 22' 11" W. dist. marked T.7 N., R.4 E., S.4 B.T.

A pine 16 ins. diam. bears S. 43° N. 29' 11" W. dist.

North Boundary of T.7 N, R.4 E.—Continued.

marked T.7 N, R.4 E. S.5 B.T.

A pine 20 ins diam base N 32° W. 200 chs. dist.

marked T.8 N, R.4 E. S.32 B.T.

Land mountainous

Soil sandy loam and stone 2^{nd} and 4^{th} ratios.

Timber, fine and quaking asp.

Mountainous or heavily timbered land 8000 chs.

S.89 54° N. W. sec 5 and 34.

On steep descent, through heavy fine timber

1.00 Bottom of ravine, 700 ft below last spur, drain S.W. abrupt ascent.

10.00 Sharp rocky spur, 350 ft high projects S. descend

20.00 Bottom of ravine, 350 ft below spur. drain S. around
Lean pine, fine quaking asp timber, base N and S.

35.00 Set a gray sand stone 14x10x6 ins 9 ins. in ground
for 1/4 sec cor. marked 1/4 on N. face, raise mound
of stone 2 ft base 1/2 ft high N of cor. Pit impracticable.
A quaking asp 6 ins. diam base N 40 71° 30' W. dist
marked 1/4 S.32 B.T.

A quaking asp 8 ins. diam base S 45 07° W 41' W. dist
marked 1/4 S.5 B.T.

Thence line abrupt ascend along S. slope.

71.00 Top of ridge 800 ft above ravine, base N and S. descend

80.00 Set a gray sand stone 16x10x8 ins. 11 ins. in ground
for cor of sec 5, 6, 31, and 32, marked with 1 notch on
W and 5 notches on E, dip 1/2. raise mound of stone
2 ft base 1/2 ft high. N of cor. Pit impracticable.
A quaking asp. 8 ins. diam. base N 10 8° E. 15' W.
dist. marked T.8 N, R.4 E. S.32 B.T.

A quaking asp 10 ins. diam base S 45 07° E. 31' W. dist
marked T.7 N, R.4 E. S.5 B.T.

A quaking asp 14 ins diam base S 83 07° W. 34' W. dist
marked T.7 N, R.4 E. S.16 B.T.

A quaking asp 11 ins. diam. base N 71 07° W. 62' W.
dist marked T.8 N, R.4 E. S.31 B.T.

Land mountainous

Soil sandy loam and stone 2^{nd} and 4^{th} ratios.

Timber, fine and quaking asp.

Mountainous or heavily timbered land 8000 chs.

North Boundary of T 7 N R 4 E - Concluded.

S 89° 54' W. Int. sec. band 31

Over descending land through quarry asp timber

Bottom of swale 70 ft below sec. cor. drains S. ascend

Top of spur, 100 ft above swale, projects S. descend

Sec. a quarryite stone 16x12x8 ins 11 ins. in ground

for 1/4 sec. cor. marked 1/4 on the face, from which

A quarrying asp 6 ins diam was n. 20 ft dist.

marked 1/4 S. 31 B.T.

A quarrying asp 8 ins diam was S. 45° to the dist.

marked 1/4 S. 6 B.T.

Leave quarrying asp timber, mark road S.

Bottom Brainerd 300 ft below spur, drains S. ascend

Enter scattering quarrying asp timber, mark road S.

The cor. of Sec. 7 and 8 N. R. 3 and 4 E.

Land mountainous

Soil gravelly loam ~~soil~~ rate

Quarrying asp timber

Mountainous or heavily timbered land to 2000 ft.

October 16, 1897.

General Description

For general description, see notes of the survey
of the subdivisional lines of T 7 N R 4 E.

Latitude, departures, and closing errors.

Station Designated	True Bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
N. Bdy. T 6 N. R 4 E.	West	462.58				462.58
N. Bdy. T 7 N. R 4 E.	North	480.30	480.30			
N. Bdy. T 7 N. R 4 E.	N 89° 54' E.	462.00	0.80		462.00	
1st Guide Meridian E.	South	480.00		480.00		0.64
Convergence						
Totals			481.10	480.50	462.64	462.58
Error in lat			480.00		462.58	
			11.0	Excess dep.	006	

Frank E. Baxter

William C. Longall

U.S. Deputy Surveyors.

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R0247

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Franck E. Baxter and William B. Dougall, United States Deputy Surveyors to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Salt Lake Base and Meridian in the State of Utah, showing the respective capacities in which they acted:

John H. Dougall Thomas H. Halliday, Chainman.
John H. Steiner, James A. Welsh, Chainman.
James Stewart, Moundman.
David H. Grinn, Moundman.
Walter W. McLaughlin, Axeman.
Thomas Slaten, Axeman.
Henry M. Dougall, Charles Sallis, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Franck E. Baxter and William B. Dougall, United States Deputy Surveyors in surveying all those parts or portions of the South and East boundaries of Township No 1 South Range No 1 East; the boundary of Township No 2 South Range No 1 East; the North boundary of Township No 2 South Range No 2 East; and the West and North boundaries of Township No 7 North of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by them and under their direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the other monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John H. Dougall, Thomas H. Halliday, Chairman.
John H. Steiner, James A. Welsh, Chainman.
James Stewart, Moundman.
David H. Grinn, Moundman.
Walter W. McLaughlin, Axeman.
Thomas Slaten, Axeman.
George M. Dougall, Flagman.
Charles Sallis, Flagman.

Subscribed and sworn to before me this 8th day of November, 1897

800000
800000

{ Henry M. Dougall
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of day of , 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

..... of the meridian, in the of which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 5, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of , 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

W. C. Chiles, City Clerk, May 1890
The foregoing field notes of the survey of the tract with boundaries
of Township North Range East of the Lake
Doe & Delawares, etc.

executed by *Jay E. Clark of Willimantic, Conn.* under his contract No. 14, dated July 21, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Sacred 7373

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-247

H. J. B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision LinesTownship No 7 North, Range No 4 East

of the Salt Lake Base and Meridian,
in the State of Utah

AS SURVEYED BY

and E. Baxter and William B. Dougall, United States Deputy Surveyors,
under their Contract No. 214, dated July 21, 1897
Survey commenced October 15, 1897

Survey completed October 27, 1897

6-161

Dist. 58-74-93 ✓

Billing - 1-00-00 ✓

NAMES AND DUTIES OF ASSISTANTS.

John M Dougall	Chairman
Thomas M Balliday	Chairman
John M Stinson	Chairman
James M Welsh	Chairman
James Stuart	Manager
David M Brown	Manager
Malcolm McLaughlin	Asst
Thomas Blaikie	Asst
George M Dougall	Flagman
Charles Lallie	Flagman

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INDEX DIAGRAM.

Township....., Range.....

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman

....., Chainman

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman

....., Moundman

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman

....., Axman

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this }
day of , 189 }



Subdivisions of Tp. 7 N. R. 4 E.

Survey commenced October 18, 1897, and executed with two W. and S. E. Survey light mountain transits - no number, each with the solar attachment.

The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs.

The instruments were examined, tested on the true meridian at Salt Lake City, found correct and were approved by the surveyor general for Utah, August 2, 1897.

To examine the adjustments of the transits and correct the level and collimation errors, then to test the solar apparatus by comparing their indications resulting from solar observations made during a. m. and p. m. home with a true meridian determined by observations on Polaris, we proceed as follows:

At the cor. of Tps. 6 and 7 N. R. 4 and 5 E. latitude $41^{\circ}17' N.$ longitude $111^{\circ}26' W.$, we set off $41^{\circ}17' N.$ on lat. arc. $9^{\circ}57' S.$ on the decl. arc. of one of the instruments, and at $3^{\text{h}}\ 06^{\text{m}}\ p.m.\ l.$ m.t. determine with the solar, a true meridian and mark a point thereof on a plug driven in the ground 5 chs N. of cor.

With the second instrument placed over the same initial point, we set off $41^{\circ}17' N.$ on lat. arc $9^{\circ}57' S.$ on the decl. arc; and at $3^{\text{h}}\ 10^{\text{m}}\ p.m.\ l.$ m.t., determine with the solar a true meridian and mark a point thereof on the plug already set 5 chs N. of the station. This point falls 0.1 ins. west of that of the 1st instrument.

At $11^{\text{h}}\ 56^{\text{m}}$ by our watches which are $25^{\text{m}}44^{\text{s}}$ fast of l. m.t. we observe Polaris at upper culmination with the first instrument, in accordance with the manual of instructions and mark the True Meridian thus determined by a pencil mark on the stake already set 5 chs N. of

Subdivision of Tps. 7 N.R. 4 E. Continued

on station this mark falls 0.1 in E. of the mark determined by the solar of the 1st instrument and 0.2 in E. of that of the instrument.

October 18. 1897.

October 19, 1897. At 8^h 00^m a.m. l.m.t. we set off 41° 17' N on the lat. arc, 10° 11' S on decl. arc of 1st instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls 0.4 in east of the true meridian established by the Polaris observations.

At 8^h 15^m a.m. l.m.t. we set off 41° 17' N on the lat. arc, 10° 12' S. on decl. arc of the 2nd instrument, and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of our station. This mark falls, 0.3 in. east of the true meridian established by the Polaris observations.

The solar apparati, by p.m. and a.m. observations define positions for true meridians, respectively about 0° 5" W. and 0° 21" E. of the true meridian established by the Polaris observations - with the 1st. instruments and 0° 11" W. and 0° 16" E. of the same with the 2nd. instrument; therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8^h 30^m a.m. is N. 17° 16' W. the angle thus determined by the table, page 100, gives the mean mag. decl. 17° 13' E.

From the cor. of Tps. 6 and 7 N.R. 4 and 5 E. we run N.

West on S. bdy. of sec. 36: At 40.01 obs. fall 1/12 N.W. of the 1/4 sec. cor. And at 80.00 chs. intersect the cor. of secs 12, 35 and 36 on S. bdy of Tp.: Consequently the S.

Subdivision Tp 7 N. R 4 E Continued

bdy of sec 36. as west and the
chaining is as required by the Manual
of constructions.

The commence at cor. of secs. 1, 2, 35 and 36
on N. bdy. of Tp. which is a cobble stone
6 x 10 x 7 ins above ground properly marked
and witnessed.

Thence we run

N 0° 01' W. bet secs. 35 and 36

Over descending land, through small quaking
asp timber

- 18.00 Bottom of draw, 300 ft below sec. cor. drains W- ascend
23.00 Leave quaking asp timber bears N.E. and S.W.
40.00 Set a brown cobble stone 14 x 10 x 8 ins. 10 ins in ground
for 1/4 sec. cor. marked 1/4 on W. face. raise
mound of stone 2 ft base 1 1/2 ft high W of cor
Pits impracticable
- 42.00 Top of spur, 270 ft above ravine, projects S. 60° W
descend
- 52.00 Bottom of draw, 100 ft below spur, drains S. W., also enter
thick quaking asp and scattering fine timber
bears E. and W., ascend
- 58.00 Top of spur, 90 ft above draw, projects S. 80° W; also
leave timber bears N.E. and S.W. descend
- 64.00 Bottom of ravine, 150 ft. below spur, drains S. W. ascend
66.00 Enter thick quaking asp. bears N 10° E and S. 10° W.
80.00 Set a brown cobble stone 20 x 17 x 6 ins. 15 ins in
ground for cor. of secs. 25, 26, 35 and 36
marked 1 notch on S. and E. edges
raise mound of stone 2 ft base 1 1/2 ft high
W. of cor. Pits impracticable
A quaking asp. 14 ins diam. bears N. 5° E 50 lks.
distant, marked T. 7. N. R. 4. E. S. 25. B. J.
A quaking asp, 12 ins diam. bears S. 45° E
15 lks. distant marked T. 7. N. R. 4. E. S. 36. B. J.
A quaking asp, 6 ins diam. bears S. 70° W. 20
lks. distant marked T. 7. N. R. 4. E. S. 35. B. J.
A quaking asp, 12 ins diam. bears N. 45° W. 60 lks.
distant, marked T. 7. N. R. 4. E. S. 26. B. J.

Subdivision Tp. 7. N. R. 4. E. Continued

Sand mountainous

Soil sandy, gravelly and stony 3rd and 4th rates

Timber. Pine and quaking asp.

Mountainous or heavily timbered land 80,000 acs

East on a random line bet. secs. 25 and 36
40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect E. bay. D 77 p. 9 lbs. S 9 cor. secs 25, 30,
31 and 36. Established by us Sept. 23rd.

Thence we run

S. $89^{\circ}56'W$ on a true line bet. secs 25 and 36.
Over gently descending land through quaking asp
timber

30.00 Bottom Prairie, 150 ft below sec. cor. chain S. E.
ascend.

40.05 Set a brown cobble stone, 16x15x6 ins 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, from which
a quaking asp, 5 ins diam. bears $N.5^{\circ}E.$, 150 ch distant
marked $\frac{1}{4}$ S 25 B. T.

A quaking asp, 9 ins diam, bears. $S.10^{\circ}W.$ 50 lbs.
marked $\frac{1}{4}$ S 36 B. T.

42.00 Top ridge, 200 ft above ravine, divide bet. "Lost
Creek" and "Ogden River" drainage, bears
N. and S. also leave quaking asp timber
bears $N.5^{\circ}W.$ and $S.5^{\circ}E.$ descend.

43.00 Wagon road bears N. and S.

71.00 Bottom Prairie, 100 ft below ridge drains
S. ascend

75.00 Enter quaking asp timber, bears N. and S.

80.10 The cor. of secs. 25, 26, 35 and 36

This cor. is 90 ft above ravine -

Sand, Mountainous

Soil, sandy and stony 3rd and 4th rates

Timber, quaking asp.

Mountainous or heavily timbered land 80,100 acs

$110^{\circ}01'W.$ bet. secs. 25 and 26.

Over ascending land through quaking asp timber

Subdivision of T. 7 N., R. 4 E. - Continued.

- 32.00 Enter plateau, bears S. 70° E. and E.
 4.000 Set a brown cobble stone 12 x 7 x 6 ins. 8 ins. in ground
 for 1/4 sec. cor. marked 1/4 on N. face, from which
 A. quaking asp; 7 ins. diam., bears N. 85° E. 25 ft. dist.
 marked 1/4 S. 25 B.T.
 A quaking asp 9 ins. diam., bears S. 80° E. 1 ch.
 dist. marked 1/4 S. 26 B.T.
 57.10 Stage road bears N. N. and E.
 7.000 Lean plateau, bears E. and N. descend.
 77.00 Lean quaking asp enter heavy pine timber bears E. and N.
 8.000 Set a brown cobble stone 16 x 12 x 8 ins., 11 ins. in ground
 for cor of sec 2 3, 4, 2, 5, and 2, 6, marked with
 2 notches on S. and 1 notch on E. edges, from which
 A balsam 12 ins. diam. bears N. 45° E. 30 ft. dist.
 marked T. 7 N., R. 4 E. S. 24 B.T.
 A balsam 20 ins. diam., bears S. 40° E. 25 ft. dist.
 marked T. 7 N., R. 4 E. S. 25 B.T.
 A balsam 18 ins. diam. bears S. 50° E. 20 ft. dist.
 marked T. 7 N., R. 4 E. S. 26 B.T.
 A balsam 18 ins. diam., bears N. 60° E. 50 ft. dist.
 marked T. 7 N., R. 4 E. S. 2.3 B.T.

Land mountainous

Soil, sandy and stony, 2nd and 3rd ratios.

Timber, pine and quaking asp.

Mountainous or heavily timbered land 80.00 chs.

N. 89° E. on a random line between 24 and 25

4.000 Set stump 1/4 sec. cor.

80.18 Intersect E. bdy. of Tp. 14 chs. S. of cor. fence 19, 2, 4, 2, 5 and
 30, established by us Sept. 23.

Three or more

89° 37' N. on a true line between 24 and 25.

Our descending land, through quaking asp timber

2.00 Bottom of ravine, 25 ft. below, sec cor. drain S. accend.

12.00 Top of spur, 150 ft. above ravine, projects S. descend.

30.00 Head of draw, 75 ft. below spur, drains S. E. accend.

35.00 Top of ridge 125 ft. above draw, divide between Last Creek
 and Ogallala River drainage, bears N. and S. also wagon
 road bears N. and S. descend.

40.00 Set a brown cobble stone 14 x 2 x 1.0 ins. 9 ins. in

Subdivision of T. 7 N., R. 4 E. - Continued.

	ground, for 1/4 acre, cor. marked with face raised round of stone 2 ft. base 1 1/2 ft. high 3 ft. cor. Pits impracticable. A quarrying asp. 9 ins. diam. near N. 1 ch. dist marked $\frac{1}{4} S 24 B. E.$
	A quarrying asp. 8 ins. diam. near S 10° W 64 th dist marked $\frac{1}{4} S 25 B. F.$
47.00	Head of Dr. - 100 ft. below ridge drains S. 34° E. secund.
53.00	Top of spur, 50 ft. above ravine projects S. 34° E. decund.
65.00	Bottom of ravine, 275 ft. below a spur, drains N. 74° E. also wagon road parallel to ravine, secund.
76.00	Leave quarrying asp. into heavy pine timber, base N. 84° E. The cor. of secs. 23, 24, 25, and 26. This cor. is 200 ft. on a narrow land mountainous
90.18	Soil sandy and stony 2 nd and 3 rd ratios. Timber, pine and quarrying asp. Mountainous or heavily timbered land 80.18 chs.

	S 10° E. 1/4 th. bet secs. 23 and 24.
	On descending land through heavy pine timber
~.00	Leave heavy pine timber, into quarrying asp. base N. 83° N.
18.00	Bottom of ravine 350 ft. below sec. cor. drains N. N. also leave timber, wagon road, parallel to ravine secund.
27.00	Top of spur, 80 ft. above ravine, projects S 80° E. into pine timber, base E and N. decund.
37.00	Bottom of ravine, 160 ft. below spur, drains S. 34° E. leave timber same bearing, secund.
40.00	Set a brown cobble stone 16x10x6 ins 10 ins in ground for 1/4 acre, cor. marked 1/4 cor. of face, raise round of stone 2 ft. base 1 1/2 ft. high 3 ft. cor. Pits impracticable
~.00	Enter quarrying asp. base E and N.
51.07	Leave same, same bearing.
55.07	Top of spur 400 ft. above ravine projects S. 75° E. decund
6.00	Enter heavy pine timber, base S 75° E. and N. 75° E.
7.00	Leave timber, into quarrying asp. base N 60° E and S 60° E.
72.00	Bottom of ravine 150 ft. below spur. drains S 70° E. secund
8.00	Set a brown cobble stone 14x10x7 ins 9 ins in ground for cor. of sec. 13, 14, 23 and 24, marked with 3 notches on S and 1 notch on E edge, raise round of stone 2 ft. base 1 1/2 ft. high 3 ft. cor.

Subdivision of T. 7 N. R. 4 E. Continued.

Pits impracticable

A quarrying asp, 7 in. diam. bears $N. 87^\circ E.$ 2 cts.
dist. marked T. 7 N. R. 4 E. S. 13 B.T.

A quarrying asp, 6 in. diam. bears $S. 45^\circ E.$ 220 cts.
dist. marked T. 7 N. R. 4 E. S. 24 B.T.

A pine ... 2 $\frac{1}{2}$ ft. diam. bears $S. 70^\circ W.$ 500 cts.
dist. marked T. 7 N. R. 4 E. S. 23 B.T.

A pine 1 $\frac{1}{2}$ in. diam. bears $N. 45^\circ E.$ 15 cts dist.
marked T. 7 N. R. 4 E. S. 14 B.T.

Land mountainous

Soil, sandy, gravelly, and stony loam, ^{2nd} soil and ^{4th} native
Timber, pine and quarrying asp.

Mountainous or heavily timbered land 8.00 cts.

$N. 89^\circ 50' E.$ on a random line bet. sec. 13 and 24

4.000 Set stump $\frac{1}{4}$ sec. cor.

80.31 Survey E. bdy. of Sp. 14-16 & N. of cor. of sec. 13, 18,
19 and 24, established by us Sept. 23.

Thick woods

$S. 89^\circ 6' W.$ on tree line bet. sec. 13 and 24.

Over ascending land through quarrying
asp timber

13.00 Top of ridge 150 ft. above sec. cor. divide mt.
Lost Creek and Ogden River drainage,
bear N. and S. declned.

30.00 Waggon Road bears N.E. and S.

40.15 $\frac{1}{2}$ Set a brown cobble stone $1\frac{1}{4} \times 2 \times 6$ in. 9 in. in
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ sec. N. face,
raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
N. of cor. Pits impracticable

A quarrying asp 10 in. diam. bears $N. 50^\circ 51' W.$ 20
cts dist. marked $\frac{1}{4}$ S. 13 B.T.

A quarrying asp 8 in. diam. bears $S. 10^\circ 51' W.$ 500 cts
dist. marked $\frac{1}{4}$ S. 24 B.T.

40.00 Bottom of ravine 250 ft. below ridge, divides
 $S. 75^\circ 31' E.$ ascnd.

62.00 Top of spur, 80 ft. above ravine, projects
 $S. 71' E.$ declned.

71.00 Bottom of draw, 100 ft. below spur, divides
 $S. 71' E.$ ascnd.

Subdivision of T.7 N, R4 E.-Continued.

- 80.31 The cor. of secs. 13, 14, 23, and 24.
Land mountainous
Soil, sandy loam 2nd rate
Timber, quaking asp.
Mountainous or heavily timbered land 80.31 hrs.
- The sky is overcast and solar observations impossible
N. 08° S. betw sec 13 and 14.
On surrounding land through quaking asp timber
Top of ridge 300 ft. above sec. cor. bears N 60° E and S 60° W.
descend, also lean quaking asp, into heavy
pine timber, parallel to ridge.
- 40.00 Set a brown cobble stone 20 x 12 x 9 ins., 15 ins
in ground for 1/4 sec. cor. marked 1/4 on N.
face, from which
A fine 10 ins. diam. bears N 80° E 30-40 ft. dist.
marked 1/4 S. 1/3 B.T.
a fine 8 ins. diam. bears N 70° W 40 ft. dist.
marked 1/4 S. 1/4 B.T.
- 56.00 Bottom of Bear Gulch 550 ft below ridge, cut
8 ft wide 4 ins. deep, drains N. also lean
heavy pine timber, into scattering fine
Bearing E. and N. ascend.
- 65.00 Top of spur 400 ft. above gulch projects S 20° W.
thence ascend along N slope.
- 75.00 Lean scattering fine, into heavy pine timber,
bears N 20° E and S 20° W.
- 8.00 Set a gray hard sandstone 20 x 10 x 10 ins
15 ins in ground for cor. sec 11, 12, 13, and 14,
marked with 4 notches on S and 1 notch on
E edges, raise mound of stone & soft base
1/2 ft high N of cor. Pits impracticable.
A fine 18 ins. diam. bears N 60° E. 30-40 ft dist.
marked T.7 N, R.4 E, S.12 B.T.
A fine 2 ins. diam. bears S 40° E 40 ft. dist.,
marked T.7 N, R.4 E. S.13 B.T.
A fine 8 ins. diam. bears S 50° W 40-45 ft
dist marked T.7 N, R.4 E, S.14 B.T.
A fine 2 ft diam. bears N 65° W 50 ft.

Subdivision of Tp. 7 N. R. 4 E. continued

	distant marked T. 7 N. R. 4 E. S. 11. B. J. Land mountainous Soil, sandy and gravelly loam and stone 3 rd and 4 th rates Timber, fine and quaking asp. Mountainous or heavily timbered land 8.00 chs.
40.00	N. 89° 56' E on a random line bet. secs. 12 and 13 Set. temp $\frac{1}{4}$ sec. cor.
80.42	Intersect E. bdy. of Tp. 12 like N. of cor. of secs. 7, 12, 13 and 18. established by us Sept. 23. Hence we run
25.00	A. 89° 59' W. on a true line bet. secs. 12 and 13 Over descending land through quaking asp timber Bottom of ravine, 100 ft below sec. cor. drains N. 10° W. ascend.
36.00	Top of spur, 90 ft above cor., projects S. W. descend, also leave quaking asp enter pine.
40.24	Set a gray sand stone 14 x 12 x 6 ins 8 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ sec. N face from which, A. pine 3 ft diam, bears. N 10° E. 15 lbs. distant. marked $\frac{1}{4}$ S. 12 B. J. A. pine, 2 $\frac{1}{2}$ ft diam, bears. S. 20° W. 20 lbs. distant. marked $\frac{1}{4}$ S. 13 B. J.
47.00	Bottom of "Bear Gulch" 400 ft below spur Spring branch 4 lbs wide and 2 ins deep drains S. W. also leave pine timber parallel to gulch, ascend.
49.00	Wagon road bears N. E. and S. W.
76.00	Top of spur, 450 ft above gulch, projects S. W. descend - also enter heavy pine timber
80.42	The cor. of secs. 11, 12, 13 and 14 Land mountainous Soil sandy and stony 3 rd and 4 th rates Timber pine and quaking asp. Mountainous or heavily timbered land 80.42 chs.

Subdivision of Twp. 7. N. R. 4. E. continued

- 22.00 N. 0°0' W. bet. secs. 11 and 12.
Over descending land through heavy pine timber
Bottom of ravine, 300 ft below sec. cor. drains S. 20°
W. Ascend, also leave heavy pine and
enter scattering pine timber bears N. and S. 20°
40.00 Set a sandstone 28 x 14 x 10 ins. 21 ins in ground
for 1/4 sec. cor. marked 1/4 on W. face, raise
mound of stone 2 ft base 1 1/2 ft. high W. of cor.
Pits impracticable -
A. pine, 12 ins diam., bears N. 75° E. 100 lks.
distant, marked 1/4 S. 11. B. T.
A. pine, 18 ins diam., bears N. 85° W. 130 lks.
distant, marked 1/4 S. 11. B. T.
This cor. is located on top of a knoll
situated on a spur projects S. 75° E.
descend - also leave scattering pine bears
N. 70° W. and S. 70° E.
50.00 Bottom of draw, 100 ft below knoll, drains S. 20° E.
descend
70.00 Enter quaking asp timber bears N. E. and S. W.
80.00 Set a lime stone 16 x 12 x 6 ins. 11 ins in ground
for cor. of secs. 1. 2, 11 and 12
from which -
A quaking asp. 10 ins diam. bears N. 55° E. 17 lks.
distant, marked T. 7. N. R. 4. E. S. 1. B. T.
A quaking asp. 9 ins diam. bears S. 40° E. 20 lks.
distant, marked T. 7. N. R. 4. E. S. 12. B. T.
A quaking asp. 11 ins diam. bears S. 30° W. 30
lks. distant, marked T. 7. N. R. 4. E. S. 11. B. T.
A quaking asp. 8 ins. diam. bears N. 86° W. 25
lks. distant, marked T. 7. N. R. 4. E. S. 2. B. T.
Land mountainous
Soil sandy gravelly and stony. 2nd 3rd
and 4th rates
Timber Pine and quaking asp.
Mountainous or heavily timbered land 8000 cha.

October 19. 1897

October 20, 1897. S. 89° 59' E. on a random line bet.

Subdivision of Tp. 7. M. R. 4. E. continued.

- secs. 1 and 12
4.000 Set temp. $\frac{1}{4}$ sec. cor.
80.30 Intercept E. bdy. of Tp 10 lbs N of cor. of seco.
1, 6, 7 and 12 established by us Sept. 23.
Hence we run
 $N. 89^{\circ} 55' W.$ on a true line bet. secs. 1 and 12
Over ascending land through quaking asp
timber
- 10.00 Top of ridge, 80 ft above sec. cor. divide bet. "Bear
River" and Ogden River drainage, bears
N. W. and S. E. descend also wagon
road bears N. W. and S. E.
- 37.00 Bottom of ravine, 100 ft below ridge, drains S.
ascend.
- 40.15 Set a brown cobble stone $1\frac{1}{4} \times 8 \times 6$ ins., 9 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face
from which
a quaking asp, 7 ins. diam, bears $N. 10^{\circ} W.$ 100 lbs.
distant marked $\frac{1}{4} N. 1 B. S.$
A quaking asp. 10 ins. diam. bears $S. 15^{\circ} E.$ 2 chs.
distant marked $\frac{1}{4} S. 12. B. S.$
- 5.00 Top of spur, 100 ft above ravine, projects S. descend
- 60.30 Leave quaking asp timber bears N. and S.
- 62.00 Wagon road bears N. and S.
- 64.00 Bottom of draw, 90 ft below spur, spring ranch
100 ft wide, 1 in. deep. drains S. 20 $^{\circ} W.$ ascend
- 74.00 Enter quaking asp timber bears N. E. and S. W.
- 80.30 The cor. of secs. 1, 2, 11 and 12.
Said mountainous
Soil sandy and gravelly 3rd rate -
Timber quaking asp
Mountainous & heavily timbered land
80.30 chs.
- October 20 At this cor. we set off $41\frac{1}{2}$
N. on lat. arc, $10^{\circ} 33' N$ on decl. arc
of one of the instruments and at 8 $^{\text{th}}$
30 $^{\text{m}}$ a.m. l. m. t. determine a true
meridian with the solar.

$N. 89^{\circ} 55' W.$ on a random line bet. secs 1 and 2.

Subdivision of Tp. 7. N. R. 4 E. Continued

40.00	Set temp. 1/4 sec. cor.
80.20	Entered N. body of Tp. 5 lks. E. of cor. of sec. 1, 2, 35 and 36. established by us. Oct. 16
	Thence we run
	S. 0° 03' E. on a true line bet. secs. 1 and 2 -
	Over ascending land through quaking asp timber
27.00	Top of ridge, 280 ft above sec. cor. divide bet. "Ogallala River" and "Bear River" drainage, bears N. 60° W and S. 60° E descend.
35.00	Leave quaking asp timber bears E and W.
37.00	Wagon road bears E and W.
40.20	Set a brown cobble stone 14x10x5 ins - 9 ins in ground for 1/4 sec. cor. marked 1/4 on W. face raise mound of stone 2 ft base 1/4 ft high W. of cor. Pits impracticable -
44.00	Wagon road bears N. W. and S. E.
50.00	Enter quaking asp timber bears E and W.
80.20	The cor. of secs. 1, 2, 11 and 12 Land mountainous Soil sandy and gravelly 2 nd and 3 rd rates Timber quaking asp Mountainous & heavily timbered land 80.20 ch.

October 20, At cor. of secs. 2, 3, 34 and 35 on N. S.
body of Tp. which is a sandstone 5x10x8 ins
above ground properly marked and witnessed,
we set off 10° 38' S. on decl. acc. of one of
the instruments and at 11^h. 55^m a.m. L.M.
t. observe the sun on the meridian
the resulting lat. is 41° 17' N.

Thence we run

N. 02' W. bet secs. 34 and 35

Over ascending land

2.00 Entering quaking asp bears E and W.

33.00 Leave same " " "

40.00 Set a sandstone 12x8x6 ins 8 ins in ground
for 1/4 sec. cor. marked 1/4 on W. face
raise mound of stone 2 ft base 1/4 ft high
W. of cor. Pits impracticable -

44.00 Top of ridge, 500 ft above sec. cor., bears N. 80° W.

Subdivision of Tp. 7 N.R. 4 E.: Continued

	$N. 80^{\circ} E.$ descend
46.00	Enter quaking asp. bears $N. E.$ and $S. W.$.
67.00	Bottom of ravine, 200 ft below ridge. drains $S. 70^{\circ} W.$ ascend also leave quaking asp. timber bears $N. 70^{\circ} E$ and $S. 90^{\circ} W.$
72.00	Enter quaking asp timber bears $E.$ and $W.$
80.00	Set a lime stone 18x14x6 ins-12 ins. in ground for cor. sec. 26, 27, 34 and 35 marked 1 notch on S. and 2 notches on E. edges raise mound of stone 2 ft base 1 $\frac{1}{2}$ ft high $N.$ of cor. Pits impracticable A quaking asp 12 ins diam bears $N. 40^{\circ} E.$ 6 lbs distant, marked T. 7 N. R. 4 E. S. 26 B. T. A quaking asp 8 ins diam. bears $S. 20^{\circ} E.$ 70 lbs distant. marked T. 7 N. R. 4 E. S. 35 B. T. A quaking asp 9 ins. diam. bears $S. 30^{\circ} W.$ 115 lbs distant. marked T. 7 N. R. 4 E. S. 34 B. T. A quaking asp 10 ins diam. bears $N. 50^{\circ} W.$ 84 lbs distant marked T. 7 N. R. 4 E. S. 27 B. T.
	Sand mountainous Soil sandy and gravelly 2nd rate Timber quaking asp. Mountainous or heavily timbered land 8000 ft.

	Cast on a random line bet. secos. 26 and 35
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect B. and S. line 5 lbs. S. 2 cor. secos. 25, 26, 35 and 36
	Thence we run
	$S. 89^{\circ} 58' W$ on a true line bet. secos. 26 and 35
	Over ascending land through quaking asp timber
9.00	Leave same bears $N.$ and $S.$
18.50	Top of spur, 150 ft above sec. cor. projects SW descend
27.00	Enter quaking asp bears $N. E.$ and $S. W.$
40.04	Set a brown cobble stone 14x12x10 ins 9 ins in ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face from which A quaking asp 6 ins diam. bears $N. 50^{\circ} W.$ 20 lbs distant marked $\frac{1}{4}$, S. 26 B. T. A quaking asp. 7 ins diam. bears S. $10^{\circ} W.$ 13

Subdivision of Twp. N.R. 4 E. continued

Disd. marked 44 S. 35 B. T.

52.00 E. from draw 200 ft. below open, drains S. 60° W
ascend

55.00 E. S. elev. 150 ft. above draw projects S. descend
76.00 E. from draw 100 ft. below open, drains S. 10° W ascend
80.08 The cor. secs. 26, 27, 34 and 35

Sand mountainous

Soil gravelly and stony 4th rate

Timber quaking asp.

Mountainous or heavily timbered land 80.08 ch.

N. 02' W. int. secs. 26 and 27

Over ascending land through quaking asp timber

20.00 Leave quaking asp timber bears E. and W.

40.00 Set a brown cobble stone 12 x 10 x 8 ins 8 ins in ground

for 1/4 sec. cor. marked 1/4 on W. face raise mound

of stone 2 ft. base 1 ft. high 1/4 cor.

Pits impracticable

57.00 Top of ridge, 400 ft. above sec. cor. bears E. and W
descend-

67.00 Enter fine timber bears E. and W.

80.00 Set a sandstone 18 x 10 x 6 ins 12 ins in ground, for cor.

secs 22, 23, 26 and 27 marked 2 notches

on S. and E. edges - from which

A pine, 8 in. diam., bears N. 60° E. 62. lbs.

distant, marked T. 7 N. R. 4 E. S. 23 B. T.

A. pine, 12 in. diam. bears S. 60° E. 90 lbs

distant marked T. 7 N. R. 4 E. S. 26 B. T.

A pine, 14 in. diam. bears S. 40° W. 18 lbs distant

marked T. 7 N. R. 4 E. S. 27 B. T.

A pine, 10 in. diam. bears N. 15° W. 44 lbs

distant, marked T. 7 N. R. 4 E. S. 22 B. T.

Sand mountainous

Soil sandy and gravelly 3rd rate

Timber Pine and Quaking asp.

Mountainous or heavily timbered land 80.00 ch.

S. 89° 55' E. on a random line bet. secs 23 and 26

40.00, set temp. 1/4 sec. cor.

Subdivision of Tp. 7 N. R. 46. Continued

- 80.20 Intersect S. and S. line 16 lks. S of cor of
secs. 23, 24, 25 and 26
Thence we run
S. $89^{\circ} 51' W.$ on a true line bet secs 23 and 26
Over descending land through pine timber
28.00 Bottom of ravine, 150 ft below sec. cor. chains N
ascend
34.00 Leave pine timber bears N.W. and S.E.
40.10 Set a brown cobble stone 12 x 10 x 6 ins 8 ins in
ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face
raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high
N. S cor. Bits impracticable
45.00 Enter quaking asp timber bears N. E. and S.W.
58.00 Leave quaking asp timber bears N. and N.
60.00 Top of spur, 200 ft above ravine, projects N descend
64.00 Bottom of draw, 100 ft below sp. pub claims N ascend
80.20 The cor of secs. 22, 23, 26 and 27-
Sand mountainous
Soil sandy and stony 3rd and 4th rates
Timber Pine and Quaking asp
Mountainous or heavily timbered land,
80.20 cho.

October 20-1897

- October 21, 1897 N. 0° 02' W bet. secs. 22 and 23.
Over descending land through pine timber -
28.00 Bottom of ravine, 400 ft below sec. cor., spring branch
5 lkd. wide 3 ins. deep drains N. $80^{\circ} W.$ ascend
40.00 The point for $\frac{1}{4}$ sec. cor. falls on rock in place
20 ins. diam. by 8 ins above ground. Cut a
cross (X) at exact cor. point, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. side of cross, from which
A pine, 3 ft. diam, bears N. $85^{\circ} E$ 110 lks. distant
marked $\frac{1}{4} S. 23 B. T.$
A pine, 14 ins diam, bears S. $80^{\circ} W.$ 40 lks
distant marked $\frac{1}{4} S. 22 B. T.$
This cor is located 250 ft above ravine.
80.00 Set a sandstone 12 x 10 x 6 ins - 8 ins in ground
for cor. of secs. 14, 15, 22 and 23 marked
3 notches on S. and 2 notches on E. edges

Subdivision of Tp. 2, N. R. 4 E. Continued

from which

A. pine 14 ins diam. bears N 68° E. 30 lks distant marked T. 7 N. R. 4 E. S. 14 B. T.

A pine, 6 ins. diam. bears S. 30° E. 6 lks distant marked T. 7 N. R. 4 E. S. 23 B. T.

A pine 7 ins. diam. bears S. 10° W. 8 lks distant marked T. 7 N. R. 4 E. S. 22 B. T.

A pine, 18 ins. diam. bears N. 98° W. 95 lks distant marked T. 7 N. R. 4 E. S. 15 B. T.

Sand Mountainous

Soil STONY 4th rate

Timber, Pine

Mountainous or heavily timbered land 80.00 cho

N. 89° 51' E. on a random line bet. secs 14 and 23

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N and S line 28 lks. N. of cor. of secs
13, 14, 23 and 24

Thence we run

N. 89° 57' W. on a true line bet. secs. 14 and 23

Over ascending land through scattering pine and quaking asp timber

14.00 Top of spur, 150 ft above sec. cor. projects S. 10° W. descend

33.00 Bottom of ravine, 100 ft below spur, drains S. ascend

40.00 Set a brown cobble stone 16x10x8 ins. 10 ins in ground for
 $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ on N face, raise mound

of stone 2 ft base 1 ft high N of cor. This impracticable

A pine, 12 ins diam. bears N 10° E. 2 chs distant
marked $\frac{1}{4}$ S. 14 B. T.

A. quaking asp 7 ins diam. bears S. 20° W. 50 lks
distant marked $\frac{1}{4}$ S. 23 B. T.

50.00 Top of spur, 130 ft above ravine, projects S. descend.

80.00 The cor. of secs. 14, 15, 22 and 23

Sand mountainous

Soil sandy and gravelly 3rd rate.

Timber Pine and quaking asp.

Mountainous or heavily timbered land, 80.00 cho.

Subdivision D Twp N. R. 4 E. continued

October 21, 1897 At cor. of secs. 14, 15, 22 and 23
 we set 188 41° 20' N on lat. arc., 10° 56' S on
 decl. arc. of one of the instruments and at
 9^h 03^m 03^s A.M. L.M.T. determine a true
 meridian with the solar.

hence we run

N. 00° 02' W. bet. secs. 14 and 15

Over ascending land through pine timber

2.00 Top of ridge. 50 ft above sec. cor. bears E and W.
 descend

3.00 Leave timber bears E and W.

4.00 Set gray quartzite 18x12x10 ins - 12 ins in ground.
 for 1/4 sec. cor. marked 1/4 on W. face
 raise mound of stone 7 ft base 1 1/2 ft high
 west of cor. pits impracticable

42.00 Bottom of "Bear Gulch", 600 ft below ridge,
 spring branch 6 lks. wide 4 ins deep drains
 S. 80° W. ascend

7.00 Enter quaking asp timber bears E and W.

8.00 Set a sandstone 16x12x4 ins - 11 ins in ground
 for cor. of secs. 10, 11, 14 and 15 marked
 4 notches on S. and 2 notches on E. edges
 from which, (this cor. is 600 ft above "Bear Gulch")

A quaking asp. 6 ins diam. bears N 15° E. 15 lks
 distant marked J. 7 N. R. 4 E. S. 11 B. T.

A quaking asp. 8 ins diam. N 40° E. 20 lks
 distant marked J. 7 N. R. 4 E. S. 14 B. T.

A quaking asp. 10 ins diam. bears N 30° W.
 6 lks. distant marked J. 7 N. R. 4 E. S. 15 B. T.

No other trees large enough to mark

Sand mountainous

Soil stony 4th rate

Timber P. pine and quaking asp

Mountainous or heavily timbered land

80.00 Chs.

S. 89° 57' E. on a random line bet. secs. 11 and 14

40.00 Set temp 1/4 sec. cor.

80.06 Intersect N. and S. line 8 lks S. of cor. of secs. 11
 12, 13 and 14

Subdivision of Twp N. R. 48 Continued

- Thence we run
West on a true line bet. secs. 11 and 14
Cross descending land through heavy pine timber
11.00 Cotton Draw 450 ft below sec. line, drains
S. ascend, also leave timber bears N. and S.
22.00 Top of spm, 500 ft above ravine, projects S.
descend
58.00 Cotton Draw, 150 ft below spm, drains S. ascend
42.03 Set a limestone 1x8x8 ins. in ground
for 1/4 sec. cor. marked ff on N. face twice
rounded of stone 7 ft base 1 1/2 ft high
N. col. This impracticable -
50.00 Top of spm, 100 ft above draw, projects S.
descend
60.00 Enter quaking asp. bears N. and S.
80.06 The cor. of sects. 10, 11, 14 and 15
S and mountainous
soil stony & rate
Timber, Pine and quaking asp -
Mountainous or heavily timbered land 80.06 chd

October 21, 1897 At cor. of secs. 10, 11, 14 and 15. we
set off $10^{\circ} 39'$ E. on decl arc; of one of the
instruments and at $11^{\text{h}} 55^{\text{m}}$ A.M., P.M.T.
to observe the sun on the meridian
the resulting lat. is $41^{\circ} 2' 17''$

Thence we run

N. $0^{\circ} 02' 15''$ E. bet. secs. 10 and 11.

Cross ascending land through quaking asp and
scattering pine timber

- 2.00 Top of spm, 50 ft above sec. line, projects N. 80° W. descend
10.00 Enter pine killed timber bears S. and W.
57.00 Cotton Draw, 200 ft below spm, drains S. 60° W. ascend
40.00 Set a limestone 1x8x8 ins. in ground for 1/4
sec. cor. marked ff on N. face. Face rounded
of stone 7 ft base 1 1/2 ft high N. col. This impracticable
No growing trees within limit
51.00 Top of spm, 600 ft above draw, projects N. N. descend
also enter live pine timber bears East and W.
80.00 Set a limestone 1x8x8 ins. in ground for cor.

Subdivision of T. 7 N. R. 4 E. continued

secs. 2, 3, 10 and 11 marked 5 notches on S. and 2 notches on edges, from which
 A pine 10 ins. diam. bears 71.30° E. 2 chs distant
 marked T. 7 N. R. 4 E. S. 2 B. T.
 A. pine, 2 ft. diam bears S. 20° E. 20 chs distant
 marked T. 7 N. R. 4 E. S. 11 B. T.
 A pine, 10 ins. diam. bears S. 40° W. 80 chs distant
 marked T. 7 N. R. 4 E. S. 10 B. T.
 A. pine, 16 ins. diam. bears 71.50° W. 40 chs
 distant marked T. 7 N. R. 4 E. S. 3 B. T.
 This cor. is 350 ft below spur.

Land mountainous

Soil very stony 4th rate

Timber Pine and quaking asp

Mountainous or heavily timbered land 8000 chs.

East on a sandstone line bet. secs. 2 and 11.

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line 10 chs S. of cor. of secs.
 1, 2, 11 and 12

Thence we run

S. $89^{\circ}56'W.$ on a true line bet. secs 2 and 11

Over ascending land through quaking asp timber

15.00 Top ridge, 250 ft. above sec. cor. bears N. 10. S. descend

35.00 Enter scattering pine among quaking asp trees
 N. E. and S. W.

40.05 Set a limestone 15 x 8 x 6 ins 8 ins in ground
 for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on N. face

raise mound of stone 7 ft base 1 $\frac{1}{2}$ ft.
 high No cor fits satisfactorily

A quaking asp. 8 ins. diam. bears 71.10° E. 1.50 chs.
 distant marked $\frac{1}{4}$ S. & B. T.

A pine, 10 ins. diam. bears S. 20° W. 1 ch. distant
 marked $\frac{1}{4}$ S. 11 B. T.

47.00 Bottom of ravine 300 ft. below ridge, spring
 branch 1 ft. wide 2 ins deep, drains N.
 W. ascend

58.00 Top of spur, 100 ft. above ravine, projects N.W.
 descend also leave quaking asp. enter pine
 bears N. and S.

Subdivision of Tp. N.R. 4 E. continued

- 80.10	The cor. of secs. 2, 3, 10 and 11 Sand mountainous Soil sandy and gravelly 4th rate Timber Pine and quaking asp. Mountainous or heavily timbered land 80.90 ch.
4000	At $0^{\circ}07^{\circ}W$ on a random line bet secs. 2 and 3 Set temp $\frac{1}{4}$ sec. cor.
80.00	Entered N. bdy of Tp. at cor. of secs. 2, 3, 34 and 35 established Oct 16 th Thence we run $1.0^{\circ}07^{\circ}E.$ on a true line bet. secs. 2 and 3 Over ascending land
20.00	Top of ridge 300 ft above sec cor. bears E and W descend
23.00	Enter quaking asp timber bears E and W.
40.00	Set a sandstone 16x8x6 ins 11 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face from which A quaking asp, 8 ins. diam, bears $1150^{\circ}E$ 10 ft. distant marked $\frac{1}{4} S. 2 B. S.$ A quaking asp, 12 in diam. bears $1155^{\circ}W$, 25 ft. distant marked $\frac{1}{4} S. 3 C. S.$
44.00	Leave quaking asp timber bears E and W.
77.50	Bottom prairie, 500 ft below ridge, spring branch 4 ft. wide 2 ins deep drains S. $60^{\circ}W$. also enter pine timber bears E and W.
80.00	The cor. of secs. 2, 3, 10 and 11 Sand mountainous Soil sandy 2nd rate Timber Pine and quaking asp Mountainous or heavily timbered land 80.00 ch.

From cor. of secs. 3, 4, 33 and 34 on N. bdy
of Tp. which is a granite stone 5x80x8
ins. above ground properly marked and
witnessed - we run
 $11.0^{\circ}02'W.$ bet secs. 33 and 34
Over descending land through quaking asp timber

Tp. 7 N. R. 4 E. continued

- 8.00 Leave quaking asp timber bears S and W
 11.50 Bottom gravel 20ft. below sec. cor. drains
 N. 88° W. ascend -
- 35.00 Enter quaking asp timber bears N. E and S. W.
- 40.00 Set a sandstone 12 x 10 x 8 ins 8 ins in ground
 for $\frac{1}{4}$ sec. cor. cracked if you W. face from which
 A quaking asp, 5 ins diam. bears N. 88° E. 10 lks
 distant marked $\frac{1}{4}$, S. 34 B. T.
 A quaking asp, 6 ins diam. bears N. 85° W.
 14 lks distant marked $\frac{1}{4}$, S. 33 B. T.
- 49.00 Top of spur, 400 ft. above ravine, projects S. 20° W. descend
- 60.00 Head draw, 100 ft. below spur, drains S. 40° W. ascend
- 63.00 Leave quaking asp bears S. W. and S. E.
- 67.00 Top of spur, 90 ft. above draw, projects S. 30° W. descend
- 71.00 Enter quaking asp Bears S and W.
- 80.00 Set a limestone 16 x 10 x 6 ins, 11 ins in ground
 for cor. of secs. 27, 28, 33 and 34
 marked 1 notch on S. and 3 notches
 on E. edges. from which -
 A quaking asp, 8 ins. diam. bears N. 30° E. 40 lks
 distant marked T. 7 N. R. 4 E. S. 27 B. T.
 A quaking asp 10 ins. diam. bears S. 58° E. 32 lks
 distant marked T. 7 N. R. 4 E. S. 34 B. T.
 A quaking asp 8 ins. diam. bears S. 40 W. 48 lks.
 distant marked T. 7 N. R. 4 E. S. 33 B. T.
 A quaking asp, 7 ins. diam. bears N. 30° W. 35
 lks. distant marked T. 7 N. R. 4 E. S. 28 B. T.

Sand mountainous

Soil sandy and gravelly 3rd rate

Timber quaking asp.

Mountainous or heavily timbered land 8000 chs.

October 21-1897

October 22, 1897. East on a random line bet. secs.
 27 and 34

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.10 Intersect N and S line 10 lks N of cor of secs. 26,
 27, 34 and 35

Thence we run

N. 89° 56' W. on a true line bet. secs. 27 and 34

Subdivision of Tp. 7 N R. 4 E. continued

Over recently cleared, through quaking asp. timber.

5.00 Top of spur, 70 ft. above sec. cor., projects S. descending.
17.00 Spur, 105 ft. below spur, drains $8.90^{\circ} E.$ ascend.

also enter quaking asp. timber bears N. and S.

33.00 Top of spur, 50 ft. above drain, projects $8.70^{\circ} E.$ descend

40.05 A quaking asp. tree, no. 14 in. diam. for 1/4 sec. cor. we
marked it S. 27 on N. and S. 34 on S. side
from which

A quaking asp. 6 in. diam. bears $7.80^{\circ} W.$ 14

ft. S. distant marked 1/4 S. 27 B. S.

A quaking asp. 7 in. diam. bears $8.10^{\circ} W.$ 20 ft. S.
distant marked 1/4 S. 34 B. S.

~8.00 Bottom ravine, 200 ft. below spur, drains S. W.
ascend, also leave quaking asp. timber

18.00 Top of spur, 100 ft. above ravine, projects $9.90^{\circ} W.$ descend

28.00 Enter quaking asp. timber bears $7.90^{\circ} E.$ and $8.70^{\circ} W.$

Sect. 13 The cor. of sec. 27, 28, 33 and 34

Land mountainous

Soil sandy and gravelly 3rd rate

Timber of quaking asp.

Mountainous or heavily timbered land 80% of obs.

October 22, 1897 At this cor. we set $18.41^{\circ} N$

on lat. arc, $119.5^{\circ} S$ on decl. arc done

of the instruments and at $8^{\text{h}} 00^{\text{m}} \text{ A.M. L.}$

M.T. determine a true meridian
with the solar.

S. $0^{\circ} 27.5$ lat. secos. 27 and 28

Over descending land through quaking asp. timber

10.00 Ravine just 50 ft. below sec. cor. drains

$9.60^{\circ} W.$ Ascend

8.00 Leave quaking asp. timber bears E. and W.

18.00 Top of spur, 100 ft. above ravine, projects $8.30^{\circ} N.$
descend

28.00 Enter quaking asp. timber bears $7.80^{\circ} E.$ and $8.10^{\circ} W.$

38.00 Bottom of hollow, 80 ft. below spur, drains $8.40^{\circ} W.$
ascend

48.00 Leave quaking asp. timber bears N. and S.

50.00 Set a cobble stone 18x10x8 in. 12 in. in ground
for 1/4 sec cor marked 1/4 on N face

T.P. 7 N.R. 4 E. continued -

raise mound of stone 7 ft. base 1 1/2 ft.
high. N. of cor. Tilt impracticable
 4800 Top of ridge 200 ft above savine, bears
E. and W. descend
 - 80.00 Set a limestone 16 x 12 x 8 ins. 10 ins in ground
for cor. of secs. 21, 22, 23 and 28 marked
2 notches on S. and 3 notches on E. edge
raise mound of stone 7 ft. base 1 1/2 ft. high
N. of cor. Tilt impracticable -
 Sand mountainous
 Soil sandy and stony 3rd rate
 Timber of taking asp.
 Mountainous heavily timbered land 8000 Ch.

S. 89°56' E. on a random line bet. secs 22 and 23
 40.00 Set temp 1/4 sec cor.
 80 1/2 Intercept N. and S. line 10 lks. S. of cor of
secs. 22, 23, 26 and 27
 Thence we run
 West on a true line bet. secs. 22 and 23
 Over descending land through pine timber
 90.0 Bottom of draw, 100 ft below sec. cor. drains N.
10 W ascend
 24.00 Top of spur, 100 ft above draw, projects N. descend
also leave heavy pine and cedar scattering
pine and quaking asp timber
 40.06 Set a sandstone 12 x 10 x 6 ins 8 ins in ground
for 1/4 sec cor marked 1/4 on N. face
raise mound of stone 7 ft. base 1 1/2 ft. high
N. of cor. Tilt impracticable
 A pine 10 ins diam. bears N. (80°) W on 2
lks distant marked 1/4 S. 22 B. T.
 A pine 8 ins diam. bears S. 70° W.
18 lks distant marked 1/4 S. 22 B. T.
 43.00 Bottom of draw, 100 ft below spur, drains N. ascend
 53.00 Top of spur 200 ft. above draw, projects N. descend
 72.00 Bottom of draw, 170 ft below spur, drains N. ascend
also leave pine and quaking asp timber
bears N. W and S. E.
 - 80 1/2 The cor. of secs. 21, 22, 23 and 28

Subdivision of Twp. 7 N. R. 4 E. Continued

Sand mountainous

Soil stony and sandy 3 rate

Timber Pine and quaking asp.

Mountainous or heavily timbered land 80 ins. chs.

W. of W. lot secs. 21 and 22

Over descending land

6.00 Enter quaking asp and scattering pine timber E end N.

16.00 Leave quaking asp and enter hickory pine timber beds S. end W.

29.00 Descend through broken cliffs

39.00 Bottom of gorge, 400 ft below sec. cor. drains W. descended also leave pine bears E end W.

40.00 Set a limestone 16x12x10 ins 9 ins in ground for sec. cor. marked 1/4 on W. face raise mound of stone 2 ft base 1/2 ft high W of cor. pits impracticable

A pine, 10 ins diam. bears S. 65° E. 150

chs distant marked 1/4 N. 72 B. T.

A pine, 14 ins. diam. bears S. 70° W. 2 chs distant marked 1/4 N. 71 B. T.

46.00 Top of broken cliffs-

55.00 Top of spur, 500 ft above gorge; projects W. also enter heavy pine timber E end W.

80.00 Set a quartzite 14x10x8 ins 9 ins in ground for cor. of secs. 15, 16, 21 and 22 marked 3 notches on S. and E edges from which A pine, 14 ins. diam. bears N 80° E. 100 chs distant marked T. 7 N. R. 4 E. S. 15 B. T.
A pine, 24 ins. diam. bears S. 70° E. 22 chs distant marked 5/2 N. R. 4 E. S. 22 B. T.
A pine 6 ins. diam. bears N. 80° W. 30 chs distant marked T. 7 N. R. 4 E. S. 21 B. T.
A pine, 16 ins. diam. bears N. 80° W. 70 chs distant marked T. 7 N. R. 4 E. S. 16 B. T.

Sand mountainous

Soil sandy and stony 3rd and 4th rates

Timber Pine and quaking asp

Mountainous or heavily timbered land 8000 chs.

October 22 At this cor. we set off

Tp. 2 N.R. 4 E. Continued

11^h 20^m S. on decl. arc of one of the instruments
and at 11^h 5^m a.m. l.m.t. observe
the sun on the meridian the
resulting lat. is 41° 20' N.

- Cast on a sandstone bet. sec. 15 and 22.
4000 Set timep. 1/4 sec cor.
79.98 Intersect N. and S. line walks 1/2 ea 3 sec.
14. 15. 22 and 23
Thence westward
At 89° 52' W. on a true line betw. secs 15 and 22
Over descending land through scattering pine timber.
8.00 Head of draw, 100 ft below sec. cor. draws S. ascend.
17.00 Top of ridge, 200 ft above draw. bears N. 80° E.
and S. 80° W. descend
39.99 Set a sandstone 18x12x8 ins 12 ins in ground, for
1/4 sec. cor. marked 1/4 on N. face from which
A pine, 10 ins. diam. bears N. 20° E. 60 lks. distant
marked 1/4 A. 15 B. T.
A pine, 14 ins. diam. bears S. 25° W. 40 lks
distant marked 1/4 A. 22 B. T.
79.98 The cor. 3 sec. 15, 16, 21 and 22
Land mountainous
Soil sandy and gravelly 3rd rate
Timber Pine
Mountainous or heavily timbered land 79.98 obs.

- X 70002 W. bet. secs. 15 and 16
Over descending land through pine timber
2500 Bottom of ravine 650 ft below sec. cor. branch
of Ogden River 20 lks. wide 1 ft deep
draws S. W. ascend also leave
timber.
4000 Set a limestone 24x12x9 ins 18 ins in ground
for 1/4 sec cor. marked 1/4 on N. face
raise mound of stone 7 ft. base 1 1/2 ft.
high H. of cor. Pitts imperceptible
5500 Thence gentle descent along W. slope
7500 Thence descend along N. W. slope

Subdivision of Tp. 7 N. R. 4 E. continued

- 80.00 Set a limestone 20x14x7 ins-15 ins. in ground
for cor. of secs. 9, 10, 15 and 16 marked
4 notches on S. and 3 notches on E edges
raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high
W. of cor. Pits impracticable
Land mountainous
Soil stony 2nd rate
Timber Pine
Mountainous or heavily timbered land 80.00 chs
- S. 89° 52' E. on a random line bet. secs. 10 and 15
40.00 Set a temp $\frac{1}{4}$ sec. cor.
80.12 Intersct Land S. line 24 lbs. N of cor. of secs.
10, 11, 14 and 15
Thence we run.
S. 89° 58' W. on a true line bet. secs. 10 and 15.
Over descending land through quaking asp
and scattering pine timber -
- 32.00 Bottom of ravine, 400 ft. below sec cor. branch
of Ogallala River 10 lbs wide 4 ins deep
Drains S. ascend leave timber land.
- 40.06 Set a lime stone 16x14x6 ins. 11 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft.
high N. of cor. Pits impracticable
This cor. is 400 ft above ravine,
- 51.00 Top of spur. 200 ft above $\frac{1}{4}$ sec. cor. projects
S. descend
- 80.12 The cor. of secs. 9, 10, 15 and 16
This cor is 300 ft. below spur.
Land mountainous
Soil stony 2nd rate
Timber Pine
Mountainous or heavily timbered land 80.12 chs.
- 1000 ft. bet. secs. 9, and 10
Over descending land
- 10.00 Bottom of ravine 300 ft below sec cor. drains
S. 10° W. ascend

Division Tp. 7 N.R. 4 E. Continued

22.0	After quaking asp timber bears E and W.
40.00	Set a lime stone 14x8x6 ins 9 ins in ground, for 1/4 sec. cor. marked '4 on W. face, from which A quaking asp. 8 ins diam. bears N. 80° E 20 lks distant marked 1/4 S. 10 B. J.
	A quaking asp, 7 ins diam. bears S. 75° W 15 lks distant marked 1/4 S. 9 B. J.
50.00	Top of ridge 250 ft above ravine, bears N. S. and S. W. descend
69.00	Bottom of head of draw, 60 ft below ridge, dunes P. W. descend
80.00	Set a cobble stone 14x12x6 ins 9 ins in ground for cor. of secs. 2, 4, 9 and 10 marked 5 notches on N. and 3 notches on E. edges from which A quaking asp. 10 ins diam. bears N. 60° E 75 lks distant marked T. 7 N. R. 4 E. S. 3 B. J. A quaking asp, 11 ins diam. bears S. 30° E. 30 lks. distant marked T. 7 N. R. 4 E. S. 10 B. J. A quaking asp. 10 ins. diam. bears S. 50° W 50 lks. distant marked T. 7 N. R. 4 E. S. 9 B. J. A quaking asp 11 ins. diam. bears N. 80° W 15 lks. distant marked T. 7 N. R. 4 E. S. 4 B. J.
	Sand innumerable Soil sandy loam 2nd rate Timber quaking asp Innumerable or heavily timbered land 8000 Chs

40.00	N. 89° 58' E. on a random line bet secs 3 and 10 Set temp. 1/4 sec. cor.
80.00	Intersect N and S. line, 12 lks N. of cor. of secs. 2, 3, 10 and 11 Thence we run
	N. 89° 57' W. on a true line bet secs. 3 and 10 Over descending land through pine timber
5.00	Bottom of ravine 100 ft below sec cor. branch of Ogden River 10 lks wide 6 ins deep dunes S. 10° W. ascend also leave timber

Subdivision of Twp. N.R. 4 E. continued

11.00	Top of spur. 300 ft above ravine, projects S.E. descend
20.00	Bottom of draw, 100 ft below spur, drains S.E. ascend
28.00	Enter quaking asp timber bears S.E. and S.W.
40.00	Set a sandstone 16 x 10 x 6, ias, 10 ins in ground for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on W face, from which, A quaking asp, 12 ins diam. bears $7.60^{\circ}W$. 40 chs. distant marked $\frac{1}{4} N. 3 B. T.$ A quaking asp, 10 ins. diam. bears S. $55^{\circ}W$ 30 chs. distant marked $\frac{1}{4} N. 10 B. T.$
63.00	Top of ridge. 200 ft above ravine, bears N. and N.W. descend
80.00	The cor. of secs. 3, 4, 9 and 10 Sand mountainous Soil sandy and stony 3 rate Timber Pine and quaking asp Mountainous or heavily timbered land 8000 chs.

	1000' W. on a random line bet. secs 3 and 4
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. side. of Tp 5 lbs W of cor. of secs. 3 4, 33 and 34 established by us Oct. 16 Thence we run
	South on a true line bet. secs. 3 and 4
	Over ascending land through quaking asp timber
28.00	Top of ridge, 250 ft above sec cor. Bears E and W.
40.16	Set a sandstone 14 x 10 x 6 ins 9 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, from which A quaking asp, 2.6 ins diam. bears $7.80^{\circ}E$. 250 chs. distant, marked $\frac{1}{4} N. 3 B. T.$ A quaking asp 8 ins. diam. bears S. $50^{\circ}W$ 35 chs. distant marked $\frac{1}{4} N. 4 B. T.$
52.00	Head of draw. 100 ft below ridge, drains S. $30^{\circ}W$. descend
63.00	Top of ridge 125 ft above draw, bears N $30^{\circ}E$ and S. $30^{\circ}W$ descend
80.16	The cor. of secs. 3, 4, 9 and 10. Sand mountainous.

Subdivision of Tp. 7 N.R. 4 E. Continued

Soil sandy loam 2nd rate
 Timber grueling esp
 Mountainous or heavily timbered land 80.16 chs.
 October 22-1897

October 23, 1897 From cor. secos. 4, 5, 32 and 33
 on S. bdy. of Tp. which is a limestone
 5x10x6 ft. above ground properly marked and
 witnessed, we run

110°08' W. bet. secs. 32 and 33.

Over descending land

- 10.00 Bottom of ravine, 200ft below sec. cor., spring branch
 4 ft. wide 2 ins. deep, drains N. 80° W. ascend
 18.00 Top of spur, 280ft. above ravine, projects N. descend
 31.50 Bottom of ravine 250ft. below spur, spring branch 3 ft. wide
 2 ins. deep drains N. 25° W. ascend
 40.00 Set a blue lime stone 16x12x5 ins. 11 ins. in ground
 for 1/4 sec. cor. marked 1/4 on W. face, raise
 mound of stone 2 ft. base 1 1/2 ft. high N of
 cor. Pits impracticable -
 80.00 Set a blue lime stone 14x14x10 ins 9 ins in ground
 for cor. of secos. 28, 29, 32 and 33 marked
 1 notch on S. and 4 notches on E. edges
 raise mound of stone 2 ft. base 1 1/2 ft. high
 W. of cor. Pits impracticable

Sand mountainous. This cor is 400ft above ravine:
 Soil, gravelly and stony 3 and 4th rates
 No timber

Mountainous land 80.00 chs

October 23 at this cor. we set off 41°18' N
 on lat. arc, 11°36' E. on decl. arc of one
 of the instruments, and at 8^h^{00m} a.m.
 L.M.T. determine a true meridian
 with the solar.

East on a random line bet. secs. 28 and 33

40.00 Set temp 1/4 sec. cor.

79.96 Intersect N and S. line 15 ft. N of cor.
 of secos. 27, 28, 32 and 34

Subdivision of Tp. 7 N. R. 4 E. continued

Hence we run

$7^{\circ} 87' 47''$ N. in a true line bet. secs. 28 and 29.

Over descending land through quaking asp timber

- 8.00 Leave quaking asp timber bears N. and S.
 11.00 Bottom of draw, 100 ft below sec. cor. drains S. 60° W. ascend.
 18.00 Spring branch 2 lks. wide in deckdrain S.
 22.00 Edge of draw, 125 ft above draw, projects S. descend.
 32.00 Bottom of draw, 90 ft below spring, drains S. ascend.
 38.00 Edge of draw, 80 ft above draw, projects S. descend.
 39.98 Set a limestone 18x12x8 ins. 12 ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised
 around & stone 2 ft. base $\frac{1}{4}$ ft. high N of cor.
 Pits impracticable -
 43.00 Edge of draw, 100 ft below spring, drains S. ascend.
 65.00 Edge of draw, 150 ft above draw, projects S. descend.
 70.00 Bottom of draw, 75 ft below spring, drains S. ascend.
 - 79.96 The cor. of secs. 28, 29, 32 and 33.
 Land mountainous
 Soil gravelly and stony 3rd. rate
 Timber quaking asp
 Mountainous or nearly timbered land 79.96 chs.

$N. 0^{\circ} 0' 3''$ N. bet. secs. 28 and 29

Over ascending land

- 22.00 Edge of ridge 300 ft. above sec. cor. bears $N. 80^{\circ} E.$ and
 S. $80^{\circ} W.$ descend
 32.00 Enter heavy pine timber bears E. and W.
 40.00 Set a blue limestone 16x11x7 ins. 10 ins in ground.
 in $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raised
 around & stone 2 ft. base $\frac{1}{4}$ ft. high N of
 cor. Pits impracticable -
 A joint. 10 ins. diam. bears S. $40^{\circ} E.$ 100 lbs. distant
 marked $\frac{1}{4}$ S. 28 B. J.
 A joint. 15 ins. diam. bears S. $80^{\circ} W.$ 20 lbs. distant
 marked $\frac{1}{4}$ S. 29 B. J.
 67.00 Bottom of ravine 500 ft. below ridge, drains N. W. ascend -
 68.60 Edge of draw. 150 ft. above ravine, projects N. W. descend -
 80.00 Set a limestone 18x11x9 ins. 12 ins in ground

Subdivision of Tp. 777. R. 4 E. Continued

for cor. of secs. 20, 21, 28 and 29 marked
 2 notches on N. and 4 notches on S. edge of
 raised mound of stone at base, 1 ft. high
 N. of cor. Pits imperceptible
 A pine, 20 ins. diam. bears $77^{\circ}40' E.$ 1.50 chs.
 distant marked T. 777 R. 4 E. S. 21 B. T.
 A pine, 2 ft. diam. bears S. $50^{\circ} E.$ 15 lbs, distant
 marked T. 777 R. 4 E. S. 28 B. T.
 A pine, 18 ins. diam. bears S. $60^{\circ} W.$ 35 lbs.
 distant, marked T. 777 R. 4 E. S. 29 B. T.
 A pine 22 ins. diam. bears $77.70^{\circ} W.$ 2 chs.
 distant marked T. 777 R. 4 E. S. 20 B. T.

Sand mountainous

Soil sandy and stony 3rd and 4th rates

Timber Pine

Mountainous or heavily timbered land 80.00 chs.

S. $89^{\circ}54' E.$ on a random line bet. secs. 21 and 28

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.04 Intercept N and S. line 10 lbs N. of cor. of secs.
 21, 22, 27 and 28

Thence for 1 mi

S. $89^{\circ}58' W.$ on a true line bet. secs. 21 and 28.

Over ascending land

5.00 Top of open, 125 ft. above cor. projects $77.10^{\circ} W.$, also
 enter quaking asp. timber bears, 7' and 8' diam., ascend,

12.00 Bottom of draw, 100 ft. below, 8' mi, diam. $77.25^{\circ} W.$, ascend.

26.00 Leave quaking asp. timber. Heavy pine timber vines
 S. W. and N. E.

40.02 Set a limestone, 16 x 12 x 8 ins. 11 ins. in ground in
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raised
 3 ft. stone at base 1 ft. high N. of cor. Pits imperceptible
 A pine, 10 ins. diam. bears $77.20^{\circ} W.$ 20 lbs.
 distant marked $\frac{1}{4}$ B. T. 21 B. T.

A pine, 6 ins. diam. bears S. $50^{\circ} W.$ 10 lbs distant

marked $\frac{1}{4}$ S. 28 B. T.

42.00 Top open, 120 ft. above, vines, projects $77.40^{\circ} W.$ descend.

80.04 The cor. of secs. 20, 21, 28 and 29

Sand mountainous

Soil gravelly and stony 3rd rate

Subdivision of Twp 7 N. R. 4 E. continued

Timber Pine and quaking asp
Mountainous or heavily timbered land 8004 acs.

October 23 At cor. of secs. 20, 21, 28 and 29. we
set off 1¹/₂ ft. on decl. arc, from one of the instruments and at 11^h 57^m a.m. l.m.t. of course
the sun on the meridian the resulting
latitude is 41° 19' N

Thence we run

N. 00° 03' W. bet. secs. 20 and 21

Over descending land through pine timber -

14.00 Bottom of ravine, 300 ft. below sec. cor. branch of "Open
River" 20 ft. wide 1 ft. deep drains S. 70° E. and S. 70° W.
also leave pine timber bears N. W. and S. 20° E.

37.00 Enter Pine timber bears N. W. and S. 20° E.

40.00 Set a limestone 24x18x10 ins. - 18 ins. in ground for 1/4
sec. cor. marked 1/4 on W. face, raise mound
of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
A pine, 8 ins. diam. bears N. 80° E. 80 ft. distant
marked 1/4 S. 21 P. T.

A pine, 10 ins. diam. bears S. 70° W. 2 chs. distant

Marked 1/4 S. 20 P. T.

50.00 Leave pine timber bears E. and W.

- 80.00 Set a limestone 24x17x10 ins. - 18 ins. in ground
for cor. secs. 16, 17, 20 and 21 marked 3 notches
on S. and 4 notches on E. edges, raise mound
of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable

Sand mountainous

Soil sandy and stony 3rd and 4th rates
Timber Pine

Mountainous or heavily timbered land 8000 acs.

S. 89° 58' E. on a random line bet. secs. 16 and 21

40.00 Set temp 1/4 sec. cor.

80.12 Intersect N. and S. line 13 lbs. S. of cor. of secs
15, 16, 21 and 22

Thence we run

S. 89° 57' W. on a true line bet. secs 16 and 21

Over descending land through scattered pine timber

Subdivision D Tp. 7 N.R. 4 E. Continued

30.00	Leave pine timber bears N.E. and S.W.
35.00	Bottom of ravine, 500 ft below sec. cor. branch of "Yader River" 20 lks. wide 1 ft deep drains N. 30° W. ascend
40.00	Set a lime stone 20 x 11 x 11 ins 15 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
55.00	Top of spur, 700 ft above ravine, projects S. E. descend
64.00	Bottom of draw, 200 ft below spur, drains S. E. ascend
68.00	Top of spur, 150 ft above draw, projects S. 30° E. descend -
80.12	The cor. of secs. 16, 17, 20 and 21 Sand mountainous Soil sandy and stony 3rd and 4th rates Timber Pine Mountainous or heavily timbered land 80.12 chs.

N 0° 03' W. bet. secs. 16 and 17

Over ascending land

12.00	Enter quaking asp timber bears Sand W-
30.00	Leave same bears E. and W-
40.00	Set a brown cobble stone 14 x 8 x 6 ins. 8 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable -
45.00	Enter scattering pine timber bears Sand W-
48.00	Top of ridge, 400 ft above sec. cor. bears N 60° E and S. W. descend
63.00	Bottom of ravine, 200 ft below ridge, drains N 55° W. ascend - also leave pine and enter quaking asp timber bears Sand W-
- 80.00	Set a brown cobble stone 17 x 10 x 7 ins 12 ins in ground for cor. of secs. 8, 9, 16 and 17 marked 1/4 notches on S. and E. edges raise mound of stone 2 ft base 1 1/2 ft. high N. of cor. Pits impracticable A quaking asp, 10 ins. diam. bears N. 20° E. 18 lks. distant marked J. 7 N.R. 4 E. S. 9 B. J. A quaking asp 9 ins. diam. bears S. 25° E. 25 lks. distant marked J. 7 N.R. 4 E. S. 16 B. J. A quaking asp, 8 ins. diam. bears N. 40° W. 60 lks. distant marked J. 7 N.R. 4 E. S. 17 B. J.

Subdivision of Tp. 7 N.R. 4 E Continued

A quaking asp 8 ins. diam. bears N. 60° W. 18 ft. distant, marked J. 7 N.R. 4 E. S. 8 B. T.
 Land mountainous
 Soil sandy and gravelly 2nd and 3rd rates
 Timber Pine and quaking asp
 Mountainous heavily timbered land 80,000 ch.

S. 89° 57' E. on a random line bet. secs 9 and 16
 40.00 Set temp. 1/4 sec. cor.
 8.000 Intercept N and S. line 8 ft. S. of cor. of secs.
 9, 10, 15 and 16
 Thence we run
 S. 89° 54' W. on a true line bet. secs. 9 and 16
 Over descending land
 5.00 Bottom ravine, 150 ft below ridge, drains S. ascend
 2.00 Top of ridge, 350 ft above ravine, bears N. and S. descend
 3.50 Bottom of draw, 100 ft. below ridge, drains S. ascend
 also enter quaking asp timber bears N. and S.
 4.00 Set a brown cobble stone 1/2 x 10 x 8 ins. 8 ins in ground
 for 1/4 sec. cor. Quarked 1/4 on N. face from which
 A quaking asp, 10 ins. diam. bears N. 10° E. 25 ft. distant
 marked 1/4 S. 9 B. T.
 A quaking asp, 8 ins. diam. bears S. 15° E. 20 ft. distant
 marked 1/4 S. 16 B. T.
 5.600 Top of ridge, 200 ft above draw. bears N. and S. 30° W. descend
 6.2.00 Bottom of head of draw, 100 ft below ridge, drains S. 30° W.
 - 8.000 The cor. of secs. 8, 9, 16 and 17
 Land mountainous
 Soil sandy and gravelly 3rd rate
 Timber quaking asp
 Mountainous or heavily timbered land 80,000 ch.

October 23 1897

October 25, 1897. N. 0° 03' W. bet. secs. 8 and 9
 Over ascending land through quaking asp timber
 8.00 Top of ravine, 150 ft above sec. cor. projects S. 55° W. descend
 16.00 Leave quaking asp enter pine timber bears E and W.
 32.00 Bottom of ravine, 200 ft below spur, drains S. 80° W.
 descend also leave pine timber bears E and W.

Subdivision T. 7 N.R. 4 E. continued

- 37.00 after quaking asp. bears S. and W.
 40.00 a red sandstone 15x10x6 ins. 10ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face has
 mounds of stone 2 ft. face $\frac{1}{4}$ ft. high N. & S. cor.
 This impracticable -
 A quaking asp. 10 ins. diam. bears N. 80° E. 75 lbs.
 distant marked $\frac{1}{4}$ S. 9 B. T.
 A quaking asp. 8 ins. diam. bears N. 20° E.
 distant marked $\frac{1}{4}$ S. 8 B. T.
 58.00 Top of ridge. 300 ft. above ravine. bears S.W.
 and N. 20° E. descend
 - 80.00 Set a cobble stone 20x13x9 ins 15 ins in
 ground, for cor. secs. 4, 5, 8 and 9 mark
 5 notches on S. and 4 notches on S. edges.
 from which
 A quaking asp. 20 ins. diam. bears N. 30° E. 4
 lbs. distant marked T. 7 N.R. 4 E. S. 4 B. T.
 A quaking asp. 18 ins. diam. bears S. 80° E. 50
 lbs. distant marked T. 7 N.R. 4 E. S. 9 B. T.
 A quaking asp. 10 ins. diam. bears S. 40° W. 60 lbs.
 distant marked T. 7 N.R. 4 E. S. 8 B. T.
 A quaking asp. 16 ins. diam. bears N. 35° W. 20
 lbs. distant marked T. 7 N.R. 4 E. S. 5 B. T.
- Land mountainous
 Soil sandy 2nd rate
 Timber Pine and quaking asp
 Mountainous or heavily timbered land 80.000 chs.
 October 25. at this cor. we set SB 41° 22' N
 on lat. arc. 12° 18' S on decl. arc of one of
 the instruments, and at 8^h 08^m a.m. P.M.
 determine a true meridian with the solar.

- 40.00 N. 89° 54' E. on a random line bet. secs. 4 and 9
 Set temp $\frac{1}{4}$ sec. cor.
 79.75 Intercept N. and S. line 8 lbs S. of cor. of
 secs. 3, 4, 9 and 10
 Thence westward
 N. 89° 51' W. on a true line bet. secs 4 and 9
 Over descending land through quaking asp timber
 21.00 Top of ridge. 100 ft. above cor. bears N. E. and S. W. descend

Subdivision of Tp. 7 N. R. 4 E. Continued

- also leave quaking asp timber bunch
 39.87 ft. bet. a tree 30 ft. diam. 15 ins. in ground
 for 1/4 sec. cor. marked 1/4 on W. face. same
 ground D. tree 2 ft. base 1 1/2 ft. high N. of cor.
 Pts impracticable -
- 41.00 Bottom ravine, 150 ft. from ridge, diam. 8.15' across
 50.00 Enter quaking asp timber bunch N. & S. and D. W.
 68.00 Top of ridge, 200 ft. above ravine, bears N. 30° E
 add 1/4. 230° W. descend
- 79.75 Top cor. of secs. 4, 5, 8 and 9.
 Land mountainous
 Soil sandy. 2nd rate
 Timber quaking asp
 Mountainous or heavily timbered land 79.75 Cha.
-
- 80.05 W. in a random line bet. secs. 4 and 5
 40.00 bet temp 1/4 sec. cor.
 80.20 Intercept N. bdy. of Tp. 16 1 1/2 W. S. cor. of secs. 4,
 5, 8 and 9 established before Oct. 16.
 Spruce, we run
 S. 0° 0' 4" W. in a true line bet. secs. 4 and 5
 Over ascending land through fine timber
 6.00 Top open, 100 ft. above sec. cor. projects S. W. descend
 . . . 00 Bottom ravine, 50 ft. below open. diam. 8.70' W. ascend
 34.20 Top ridge 500 ft. above ravine. bears E. and S. W. descend
 also leave pine and enter quaking asp timber
 bears E. and S. W.
- 40.20 Let a sm. tree 14 x 10 x 6 ins. 9 ins. in ground for 1/4
 sec. cor. marked 1/4 on W. face, from which
 A quaking asp, 20 ins. diam. bears N. 40° E. 250 lbs.
 distant marked 1/4 S. of D. J.
 A quaking asp, 8 ins. diam. bears S. 50° W. 350 lbs.
 distant, marked 1/4 S. 5 D. J.
- 46.00 Head of draw, 150 ft. below ridge, diam. 7.80' W. ascend
 53.00 Top of draw 125 ft. above draw, projects N. 30° W. descend
 80.20 Top cor. of secs. 4, 5, 8 and 9
 Land mountainous
 Soil, stony, 4th rate
 Timber Pine and quaking asp
 Mountainous or heavily timbered land 80.20 Cha.

Subdivision of Tp. 7 N.R. 4 E. continued -

October 25 At cor. of secs. 5, 6, 31 and 32 on S. bdry. of Tp., which is a quartzite 5x12x6 ins above ground properly marked and witnessed, we set off 12° 25' S. decl. arc, one of the instruments and at 11^h 54^m a.m. l.m.t. observe the sun on the meridian the resulting lat. is 41° 15' N.

Thence we run

40° 04' W bet. secs. 31 and 32

Over descending land

- 5.00 Enter heavy pine timber bears E and W.
- 29.00 Bottom of gorge, 600 ft below sec cor. Branch of "Ogden River" 10 lks wide 6 ins deep drains W. Ascend also leave pine timber bears E and W.
- 40.00 Set a limestone 15x10x6 ins. 10 ins. in ground for 1/4 sec. cor. marked 1/4 in W. face, raise mound of stone 2 ft. base 1 1/2 ft. high W. of cor. This impracticable
- 65.00 Top of spur. 700 ft above gorge projects S. 60° W. descend
- 68.00 Enter heavy pine timber bears E and W.
- 80.00 Set a limestone 16x10x8 ins 11 ins in ground for cor. of secs 29, 30, 31 and 32 marked 1 notch on E. and 5 notches on Q. edges raise mound of stone 2 ft base 1 1/2 ft high W. of cor. This impracticable A. pine, 8 ins diam. bears N 50° E. 50 lks distant marked J. 7 N.R. 4 E. S. 29 B. J.
- A. pine, 16 ins diam. bears S. 40° E. 35 lks distant marked J. 7 N.R. 4 E. S. 32 B. J.
- A. pine, 10 ins diam. bears S. 35° W. 30 lks distant marked J. 7 N.R. 4 E. S. 31 B. J.
- A. pine, 7 ins. diam. bears N 45° W. 15 lks distant marked J. 7 N.R. 4 E. S. 30 B. J.

Land mountainous

Soil stony. 4th rate

Timber Pine

Mountainous or heavily timbered land 8000 ft.

" East on a random pine bet. secs. 29 and 32

40.00 Set temp. 1/4 sec. cor.

80.16 Intersect N. and S. line at cor of secs 28, 29, 32 and 33

Thence we run

Subdivision of Tp. 7 N.R. 4 E. Continued

West on a true line bet. secs. 29 and 32

Over accounding land

17.00 Top of spur. 150 ft. above sec. cor. projects S. descend.

400 ft. Set a limestone 20x12x6 ins. 15 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, raise mound
 of stone 2 ft. base $\frac{1}{4}$ ft. high N of cor. pits impracticable

4700 Bottom graveline, 150 ft. below spur, drains S. ascend
 also enter quaking asp bears N and S. W.

58.00 Top of ridge, 250 ft. above mine bears N 60° E.
 and S. 60° W. descend also leave quaking
 asp and enter pine timber N. W. and S. E.

80.16 The cor. of secs. 29, 30, 31 and 32

This cor. is 300 ft. below ridge
 Land mountainous

Soil gravelly and stony 4th rate

Timber Pine and quaking asp

Mountainous or heavily timbered land 80.16 chs.

Ch. 004 W. bet. secs. 29 and 30

Over descending land through heavy pine timber

19.00 Bottom of gorge, 500 ft. below sec. cor., branch of Ogden
 River 15 ft. wide 8 ins. deep drains N.

ascend, also leave pine timber bears E. and W.

40.00 Set a lime stone 14x10x6 ins. 9 ins. in ground
 for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face raise
 mound of stone 2 ft. base $\frac{1}{4}$ ft. high N of cor.

Pits impracticable

78.00 Top of ridge, 700 ft. above gorge, bears N. E. and S. 80° W
 descend

80.00 Set a limestone 18x10x6 ins. 12 ins. in ground, for
 cor. of secs. 19, 20, 29 and 30, marked 2 notches
 on N. and 5 notches on E. edges, raise
 mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor.

Pits impracticable

Land mountainous

Soil stony 4th rate

Timber Pine

Mountainous or heavily timbered land 80.00 chs

October 25, 1897

Subdivision of Tp. 721. R. 4 E. continued

October 26, 1897. East on a random line bet.

secs. 20 and 29

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.20 Intersect N. and S. line 16 chks. N. of cor. of secs.
20, 21, 28 and 29

Thence we run

N. $89^{\circ} 53'$ W. on a true line bet. secs. 20 and 29.

Over descending land through pine timber

15.00 Bottom of ravine, 350 ft. below sec. cor. branch of "Olema
River" 20 ft. wide 10 ins. deep. drains S. W.
second also leave pine timber bears N.E. and S.W.

40.10 Set a lime stone 18x12x5 ins. 10 ins. in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N. face, raise mound
of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor.
It is impracticable

43.00 Top of spur, 650 ft. above ravine projects S. 20° E.
descend

48.00 Bottom of ravine, 100 ft. below spur, drains S. secund

60.00 Top of ridge, 200 ft. above ravine, bears N.E. and S. 80° W.
descend

80.20 The cor. of secs. 19, 20, 29 and 30

This cor. is 100 ft below ridge

Land mountainous

Soil stony. 4th rate

Timber Pine

stony or heavily timbered land 80.20 chs.

October 26 at this cor. we set off $41^{\circ} 19'$ on lat. arc,
 $12^{\circ} 38' N$ on decl. arc, of one of the instruments
and at $8^{\text{h}} 0^{\text{m}} 0^{\text{s}}$ a.m. l.m.t. determine a
true meridian with the solar-

$0^{\circ} 04'$ W. bet. secs. 19 and 20

Over descending land

20.00 Bottom of ravine 400 ft. below sec. cor. rising branch
20 ft. wide 1 in deep drains W. second

28.00 Top of spur, 300 ft. above ravine, projects S. 75° W. descend

40.00 A lime stone 15x10x6 ins. 10 ins. in ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N. face raise mound
of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor.

It is impracticable

10

Subdivision of Twp. R. 4 E. Continued

55.00 Bottom ravine, 600ft. below ridge, dunes N.W.
accord.

- 80.00 Set a brown cobble stone 17x11x9 ins 11ins in ground
in corners sec. 17, 18, 19 and 20. Marked 3 rods
on S. and 5 rods on E. edges raise
round of stone 2 ft. base 1 ft. high N. of cor.
It is impracticable.

This cor. is located on top of ridge, 450 ft. above
ravine, projects N. 25° W.

Sand mountainous

Soil stony 4th rate

No timber

Mountainous land 80.00 chs.

S. 89°53' E. on a random line bet. secs. 17 and 20.

40.00 Set trip 1/4 sec. cor.

80.08 Divided land S. line 8 like S. of cor. of secs. 16, 17
20 and 21.

Hence we run

N. 89°36' W on a true line bet. secs. 17 and 20

Over descending land

4.00 Bottom draw, 100ft below sec. cor. dunes N. 10° W. ascend

24.00 Top ridge, 400ft above ravine, bears N. 10° E. and N. 10° W
descend

40.04 Set a brown cobble stone 16x10x8 ins 11ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raise
round of stone 2 ft. base 1 ft. high N. of cor.

It is impracticable

55.00 Bottom ravine, 600ft. below ridge, dunes N. 10° W.
accord.

- 80.08 The cor. of secs. 17, 18, 19 and 20.

This cor. is 700ft above ravine,

Sand Mountainous

Soil gravelly and stony 4th rate

No timber

Mountainous land 80.08 chs.

October 26: At this cor., one set of 246 J or
decl. circ. of one of the instruments and 11h 54m
a.m. l.w.t. observe the sun on the
meridian the resulting lat is 41° 19' W.

Subdivision of T.P. 7 N.R. 4 E. Continued

	B. 0°04' W. bet. secs. 17 and 18 Over ascending land
21.00	Top of ridge, 360 ft above sec. cor., bears N. 80° E. and S. 80° W. descend, also enter quaking asp timber bears E. and W.
30.00	Leave quaking asp enter scattering pine timber bears E. and W.
40.00	Set a limestone 20x18x8 ins 10 ins in ground, for $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ on W. face, raise mound of stone 2 ft. base 1 ft. high W. of cor This impracticable A pine, 10 in. diam. bears N. 25° E. 150 lbs. distant marked $\frac{1}{4}$ S. 17 B. J.
-	A pine, 7 ft. diam. bears N. 50° W. 80 lbs distant marked $\frac{1}{4}$ S. 18 B. J.
45.00	B. from E. draw 150 ft below ridge, drains W. ascend 57.00 Top of spur, 75 ft above ravine, projects W. descend 75.00 Leave pine timber bears N. E. and S. W.
80.00	Set a blue lime stone 18x15x7 ins 10 ins in ground for cor. of secs. 7, 8, 12 and 18 marked 4 notches on S. and 5 notches on E. edges raise mound of stone 2 ft. base 1 ft. high W. of cor. This impracticable Land mountainous Soil sandy and stony 3 rd and 4 th rates Timber Pine and quaking asp Mountainous or heavily timbered land 80.00 chs

	S. 89°56' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Divide S. and N. line 10 lbs. S. of cor. of secs. 8, 9, 16 and 17.
	Thence we run
	West on a true line bet. secs. 8 and 17
	Over ascending land through quaking asp timber
11.00	Leave quaking asp enter pine N. E. and S.
13.00	Top of spur 90 ft above sec. cor. projects S. 30° W descend
35.00	Leave pine timber bears N. and S.
40.00	Set a brown cobble stone 15x11x7 ins 10 ins in

Subdivision of Twp. 7 W.R. & E. continued

	ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face raise mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor. Ticks impracticable
41.00	Bottom of ravine, 200 ft. below elev., drains S. 10° W. ascend
51.00	Top of ridge, 300 ft. above ravine, bears N. E. and S. 20° W. descend
80.00	The cor. of secs. 7, 8, 17 and 18 This cor. is 400 ft. below ridge Land mountainous Soil sandy gravelly and stony 3rd and 4th rates Timber Pine and spruce and asp. Mountainous or heavily timbered land 8000 chs.

	N. 0° 4' W. bet. secs. 7 and 8 Over descending land
35.00	Enter scattering pine timber bears N. E. and S. W.
40.00	Set a gray sandstone 24x12x6ins. 18 ins in ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m. N. face, raise mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor. Ticks impracticable
44.00	Bottom of ravine, 300 ft. below cor. branch of Ogden River, 10 lks. wide and 6 ins. deep, drains S. 25° W. ascend
45.00	Wagon road bears N. 25° E. and S. 25° W.
50.00	Leave scattering pine timber bears E. and W.
80.00	Set a lime stone 24x10x8ins. 18 ins in ground, for cor. of secs. 5, 6, 7 and 8 marked 5 notches on S. and E. edges. raise mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor. Ticks impracticable This cor. is 450 ft. above ravine. Land mountainous Soil very stony 4th rate. Timber Pine Mountainous or heavily timbered land 8000 chs.

E ast on a random line bet. secs. 5 and 8
... 00 Set temp $\frac{1}{4}$ sec. cor.
80.04 Intersect N. and S. line 8 lks. S. of cor. of secs.
4, 5, 8 and 9

Subdivision of Tp. 7 N.R. 4 E. continued

Thence we run

S. $89^{\circ} 07' W.$ on a true line bet. secs. 5 and 8-
Over descending land through quaking asp
timber

800 Bottom of draw on W. slope drains N. $80^{\circ} W.$ contour
descent, also leave quaking asp timber scattering
pine timber bears N. and S.

40.02 Set a lime stone 14x6x5 ins 9 ins in ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N. face raise mound
of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor
Tots impracticable

A pine 10 ins. diam. bears N. $60^{\circ} E.$ 1 ch. distant
marked $\frac{1}{4}$ N. 5 B. J.

A pine 20 ins diam. bears S. 2 chs. distant
marked $\frac{1}{4}$ S. 8 B. J.

62.00 Bottom of ravine, 700 ft. below sec. cor. branch of "Golden
River" 17 chs. wide 4 ins. deep drains
S. $10^{\circ} W.$ ascend also leave timber bears N.
and S.

- 80.04 The cor. of secs. 5, 6, 7 and 8
This cor. is 475 ft. above ravine

Land mountainous

Soil very strong & the rate

Timber Pine and quaking asp

Mountainous or heavily timbered land 8004 chs

N. $0^{\circ} 04' W.$ on a random line bet. secs. 5 and 6

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.25 Introduce N. side of Tp. 12 blks. N. of cor. of secs.

5, 6, 31 and 32 established by us Oct. 16.

Thence we run

S. $80^{\circ} 1' W.$ on a true line bet. secs. 5 and 6.

Over ascending land through quaking asp timber

30.00 Top of ridge, 200 ft. above sec. cor. bears N. E. and S. W.,
also leave quaking asp timber bears N. E. and S. W.,
descend

40.25 Set a brown cobble stone 16x15x9 ins. 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound
of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor. Tots impracticable

50.00 Head of draw, 150 ft. below ridge, drains S. $10^{\circ} W.$ ascend

Subdivision of Tp. 7 N. R. 4 E. Continued

60.00 Top of spur, 75 ft. above draw, projects S. 10° W. descend
 80.25 The cor. of secs. 5, 6, 7, and 8.
 This cor. is 200 ft below spur.
 Land mountainous
 Soil sandy and gravelly 3rd and 4th rates
 Timber Quaking asp
 Mountainous or heavily timbered land 80.25 chs.

October 26-1897

October 22 1897 From the cor. of secs. 29, 30, 31
 and 32 we run

West on a random line bet. secs. 30 and 31

40.00 At temp. $\frac{1}{4}$ sec. cor.

62.50 Intercept. W. bdy. of Tp. 15th N. of cor. of secs 25, 30, 31
 and 36 established by us October 15—
 Thence we run

$71.89^{\circ} 51' E$ on a true line bet. secs. 30 and 31
 Over descending land

72.50 The exact point for $\frac{1}{4}$ sec. cor. falls on ledge
 of rock 10 ft. high 40 ft E. and W. by 4 ft. N
 and S. on which we

Cut across (x) at exact cor. point, for $\frac{1}{4}$ sec. cor.
 Marked $\frac{1}{4}$ in. of cross (x) raise mound of
 stone 2 ft. base 1 ft. high N. of cor. on
 ledge. Pits impracticable

28.50 Bottom of ravine, 80 ft. below sec cor. branch of
 Ogden River "15 ft. wide 16 ins. deep, drain 560 ft. around
 also enter heavy pine timber bears N. E. and N. W.

- 62.50 The cor. of. secs. 29, 30, 31 and 32

This cor. is 700 ft. above ravine

Land mountainous

Soil stony 4th rate

Timber Pine

Mountainous or heavily timbered land 62.50 chs.

From cor. of secs. 19, 20, 29 and 30 we run

$1.89^{\circ} 51' W$. on a random line bet. secs. 19 and 30

40.00 At temp $\frac{1}{4}$ sec. cor.

67.42 Intercept W. bdy. of Tp. 15th N. of cor. of secs. 19, 24

Subdivision Tp. 7 N.R. 48. continued

25 and 30 established by us Oct. 15.
hence we run
S. $89^{\circ} 59' E.$ on a true line bet. secs. 19 and 30.
Over ascending land

22.42 Set a lime stone 16x10x8 ins 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m N. face raised
round of stone 2 ft. base $\frac{1}{4}$ ft. high N.
 $\frac{1}{4}$ cor. Pits impracticable.

52.00 Thence nearly level along top N. Slope

62.42 The cor. of secs. 19, 20, 29 and 30
This cor. is 650 ft above sec. cor. on
W. bdy. of Tp.

Land Mountainous

Soil very stony 4th rate
No timber

Mountainous land 62.42 chs

From cor. of secs. 17, 18, 19 and 20 we run.
S. $89^{\circ} 59' W.$ on a random line bet. secs. 18 and 19

40.00 Set temp. $\frac{1}{4}$ sec. cor.

62.34 Intersect W. bdy. of Tp 10 lbs A. D cor. of secs.
13, 18, 19 and 24, established by us Oct. 15.

Thence we run

S. $89^{\circ} 56' E.$ on a true line bet. secs 18 and 19
Over ascending land

22.34 Set a lime stone 16x11x8 ins, 11 ins in ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m N. face, raised
round of stone 2 ft. base $\frac{1}{4}$ ft. high N.
 $\frac{1}{4}$ cor. Pits impracticable.

40.00 Top of ridge 450 ft. above sec. cor. bears N. $20^{\circ} E.$ and
N. $20^{\circ} W.$ descend

56.00 Bottom of draw, 150 ft below ridge, draws S. ascend

62.34 The cor. of secs. 17, 18, 19 and 20
This cor. is 100 ft above draw.

Land mountainous

Soil stony 4th rate

No timber

Mountainous land 62.34 chs.

T6.
Subdivision of Tp. 7 N.R. 4 E. Continued

From cor. of secs. 7, 8, 17 and 18 we run
 $72^{\circ} 8' 56'' W$ on a random line bet. secs. 7 and 18
40.00 ac. temp. $\frac{1}{4}$ sec. cor.

67.26 Intercept W. bdy. of Tp. 10 thos N. Sec of secs 7, 17
15 and 18 established by us Oct 15

Thence we run

$71^{\circ} 89' 59'' E.$ on a true line bet. secs. 7 and 18

Over descending land

22.26 Set a gray sand stone 16x12x7 ins. 11 ins in ground, for
 $\frac{1}{4}$ sec. cor. marked upon N. face, raised mound
of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor.
This impracticable

49.00 Wagon road bears $N. 20^{\circ} E$ and $S. 20^{\circ} W$.

50.00 Bottom of ravine, 700 ft below sec. cor. on W. bdy. of Tp.,
branch of "Ogden River" 10 lbs. wide 8 ins deep,
drains $N. 20^{\circ} W$ ascend

62.26 The cor. of secs. 7, 8, 17 and 18

This cor. is 300 ft above ravine

Sand mountainous

Soil stony 4 ft. late

No timber

Mountainous land 62.26 Chs.

October 27; At this cor we set off $13^{\circ} 03' S$.

on decl. arc, of one of the instruments
and at $11^{\text{th}} 54^{\text{min}}$ a. m. l. m. t. observe
the sun on the meridian the resulting
lat. is $41^{\circ} 2' N$.

From cor. of secs. 5, 6, 7 and 8 we run
 $71^{\circ} 89' 59'' W$ on a random line bet. secs. 6 and 7
40.00 ac. temp. $\frac{1}{4}$ sec. cor.

62.18 Intercept W. bdy. of T 11 thos. S. of cor. of sec. 6

, 6, 7 and 18 established by us Oct. 15-

Thence we run

$71^{\circ} 89' 55'' E.$ on a true line bet. secs. 6 and 7.

Over ascending land

22.18 Set a brown cobblestone 17x11x11 ins in ground
for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face raised mound
of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor.
This impracticable - also top of ridge

Subdivision S. Tp. 7 N. R. 4 E. concluded

350 ft above sec. cos. on W. bdg. of Tp. bears
N. E. and S. W. descend -

33,000 Bottom of head of draw, 100 ft. below ridge,
drains N. E. ascend

47,000 Top of spur, 50 ft above draw, projects S. descend

54,000 Bottom of ravine, 250 ft below spur, drains S. ascend

- 62,18 The cor. of secs. 5, 6, 7 and 8

Sand mountainous

Soil stony 4th. rate

No timber

Mountainous land 62,18 Chs.

October 27 1897

General Description.

This township contains only mountainous land the soil of which ranges from very stony, or 4th. rate, to sandy loam, or 2nd rate. Agriculture cannot be carried on in any part of the township, but the soil is capable of producing an abundance of various grasses and herbs valuable for grazing purposes. The township is overstocked with sheep and cattle during the summer months.

Pine and quaking asp. timber is to be found on most of the north facing slopes of which, however, is not available on account of the extreme roughness of the land: though that near the divide between the several drainage shown on the plat and mentioned in the notes can be reached with comparatively small cost.

The water of the township is all pure and cold and is ample for all purposes which it will ever likely be put.

Most of the stone in the ledges found along nearly all the gulches and cañons could be used for building purposes if the

location were practicable.

There is no indication of mineral in
any part of the township.

There are no settlers in the
township.

Frank E. Barker

William B. Mull

U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ meridian, _____ of _____, which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor general for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

United States Deputy Surveyor, do,

I, solemnly swear that, in pursuance of a contract received from the United States Surveyor General for _____, bearing date of _____, day of _____, 189_____, I have well, faithfully, and truly, in my capacity as a proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the instructions of the General for _____, surveyed all those parts or portions of the

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BOOK A-247

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 7 North, Range No 3 East

of the Salt Lake Base and Meridian,

In the State of Utah

AS SURVEYED BY

and E. Baxter and William B. Dougall, United States Deputy Surveyors
under their Contract No. 214, dated July 21, 1897

Survey commenced October 28, 1897

Survey completed November 5, 1897

6-151

Distances 211- 8.0- 10.0
Sides - 60- 65- 42
Changes - 17- 88 ✓

Contingent 170-7-01-57 ✓

NAMES AND DUTIES OF ASSISTANTS.

John M. Dougall	Chairman
Thomas M. Balliday	Chairman
John M. Steiner	Chairman
James M. Kish	Chairman
James Stuart	Manager
David B. Gray	Manager
Walter M. McSaughlin	Asst
Thomas Blairs	Asst
George M. Dougall	Flagman
Charles Sallis	Flagman

BOOK A-247

INDEX DIAGRAM.

Township _____, *Range* _____

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



Subdivision Tp 7 N., R. 3 E.

Survey commenced October 28 1897
and executed with two W and L. E. Gurley
light mountain transits - no number
each with the solar attachment.
The horizontal limb of each is provided
with two double verniers placed opposite
to each other, reading to single minutes
of arc, which is also the least count of the
verniers of the latitude and declination arcs.
Instruments were examined, tested on
the true meridian at Salt Lake City, found
correct and were approved by the Surveyor
general for Utah August 2, 1897.

To examine the adjustments of the transits
and correct the level and collimation
errors, then to test the solar apparatus by
comparing their indications resulting
from solar observations made during a
m and p. m. hours with a true meridian
determined by observations on Polaris,
we proceed as follows:

At the cor. of Tps. 6 and 7 N., Rs. 3 and 4 E. latitude
 $41^{\circ}17' N.$, longitude $111^{\circ}33' W$ we set off $41^{\circ}17'$
N. on lat. arc $13^{\circ}25' S.$ on the decl. arc of
one of the instruments and at $3^h 00^m$ p. m.
l. m. t. determine with the solar a
true meridian and mark a point thereof
on a plug driven in the ground 5 chs. N. of cor.
With the second instrument placed over the
same initial point, we set off $41^{\circ}17' N.$ on
the lat. arc $13^{\circ}25' S.$ on the decl. arc and at 3^h
 10^m p. m. l. m. t. determine, with the
solar a true meridian and mark a point
thereof on the plug already set 5 chs. N. of
our station. This point falls 0.1 m. west
of that of the first instrument.

At $11^h 11^m$ by our watches which are $26^m 15^s$ fast of
l. m. t. we observe Polaris at western elongation
with the 1st instrument, in accordance with the
manual of instructions, and mark a point
on the line thus determined on a plug driven

Subdivision of Twp. 7 N. R. 3 E. continued

in the ground 5 chs. N of our station
October 28, 1897

October 29, 1897 At $7^{\text{h}} 0^{\text{m}}$ a.m. l.m.t. we lay off the azimuth of Polaris, 139° to the east and mark the true meridian thus determined with the 1st instrument, by a pencil mark on the stake set Oct. 28, on which the true meridian falls 0.2 ins east of the mark determined by the solar of the 1st instrument, and 0.3 ins east of that of the 2nd instrument.

At $8^{\text{h}} 0^{\text{m}}$ a.m. l.m.t. we set off $41^{\circ} 17' N$ on lat. arc $13^{\circ} 38' S$ on the decl. arc of the 1st instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N of our station. This mark falls 0.1 ins east of the true meridian established by the Polaris observations.

At $8^{\text{h}} 0^{\text{m}}$ a.m. l.m.t. we set off $40^{\circ} 17' N$ on lat. arc $13^{\circ} 38' S$ on the decl. arc of the 2nd instrument and mark a point in the true meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N of our station. This mark falls 0.2 ins east of the true meridian established by the Polaris observations.

The solar apparati by p.m. and a.m. observations define positions for true meridians, respectively about $0^{\circ} 11'$ west and $0^{\circ} 5'$ east of the true meridian established by the Polaris observations with the 1st instrument, and $0^{\circ} 16'$ west and $0^{\circ} 11'$ east of the same with the 2nd instrument: therefore we conclude the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at $8^{\text{h}} 30^{\text{m}}$ a.m. is $N. 170^{\circ} 16' W$. the angle thus determined reduced by the table, page 100, gives the mean mag. decl. $17^{\circ} 16' E$.

From the cor of Twp. 6 and 7 N. Rs. 3 and 4 E. we run

division Tp 7 N. R. 3 E continued

West on S. bdy of sec. 36: At 40.0 chs. fall 4 lks.
 N of the $\frac{1}{4}$ sec. cor.: And at 80.0 chs. fall
 7 lks. S. of the cor. of secs. 1, 2, 35 and 36 on
 S. bdy of Tp. Consequently the S. bdy of sec. 36 bears N. 89° 57' W.
 reported by S. E. Raugh et al. and the chaining is
 as required by the Manual of Instructions.

We commence at cor. of secs. 1, 2, 35 and 36 on
 S. bdy. of Tp. which is a sandstone $4 \times 10 \times 6$ ins
 above ground properly marked and witnessed

Thence we run

N. 0° 01' W. bet secs 35 and 36.

Over descending land

1700 Bottom of gorge, 400 ft below sec. cor., branch of "Agden
 River" 15 lks. wide and 2 ins deep, drains
 S. 70° W. ascend abruptly

40.00 Set a blue limestone $16 \times 9 \times 6$ ins, 11 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raised mound
 of stone 2 ft base $1\frac{1}{2}$ ft. high W. of cor
 Pits impracticable.

80.00 Set a sandstone $18 \times 12 \times 6$ ins 12 ins in ground
 for cor. of secs. 25, 26, 35 and 36
 marked 1 notch on S. and E. edges.
 raised mound of stone 2 ft base $1\frac{1}{2}$ ft.
 high W. of cor. Pits impracticable
 This cor is 12.00 ft above gorge.

Sand, mountainous

Soil, very stony 4th rate
 No timber

Mountainous land 80.00 chs.

S. 89° 57' E. on a random line bet. secs. 25 and 36

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.06 Intercept E. bdy. of Tp 10 lks N. of cor. of sec. 25, 30
 31 and 36 established by us Oct. 15

Thence we run

N. 89° 53' W. on a true line bet. secs. 25 and 36

Over ascending land

5.00 Top of spur, 800 ft. above sec. cor. projects

Subdivision of Twp. 7 N. R. 3 E. Continued

S.E. descend -

30.00 Bottom of ravine, 125 ft. below spur, drains S. 70° E. ascend

36.00 Top of spur, 150 ft. above ravine, projects N. 30° W. descend

40.03 Set a gray quartzite stone 24x16x10 ins. 18 ins in ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face raise mound of stone at base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

65.00 Bottom of ravine, 100 ft. below spur, drains S. ascend

- 80.06 The cor. of secs. 25, 26, 35 and 36.

Land mountainous

Soil, very stony 4 ft. rate
No timber.

Mountainous land 80.06 obs.

N. $0^{\circ}01'$ W. bet. secs. 25 and 26

Over a descending land

20.00 Top of ridge, 300 ft. above sec. cor. bears E. and W. descend

40.00 Set a sandstone 16x12x6 ins. 11 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face raise mound of stone at base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

58.50 Wagon road N.E. and S.W.

59.50 Bottom of ravine, 1000 ft. below ridge, branch of "Ogden River" 10 lbs wide 6 ins deep drains S. 70° W. ascend abruptly.

- 80.00 Set a sandstone 20x14x6 ins 15 ins in ground for cor. of secs 23, 24, 25 and 26, marked 2 notches on N. and 1 notch on E. edges raise mound of stone at base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable

Land mountainous.

Soil stony 4 ft. rate

No timber

Mountainous land 80.00 obs.

Subdivision of Tp. 7 N. R. 3 E. continued

- * \$189⁵³ on a random line bet. secs. 24 and 25
40.00 Set temp. 1/4 sec. cor.
80.10 Intersect E. bdy. of Tp. 14 miles S. of cor. of secs. 19,
24, 25 and 30. established by us Oct. 15.
Chance, we run
71.89⁵⁹ W. on true line bet secs. 24 and 25.
Over descending land
37.00 Bottom of ravine, 300ft below sec cor. drains
S. 80° W. also wagon road parallel to ravine
ascend
40.05 Set a blue limestone 20x12x6 ins - 15 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face
raise mound of stone 2 ft base 1/4 ft
high N. of cor. Bits impracticable
60.00 Top of spur, 90 ft. above ravine, projects S., descend
64.00 Bottom of ravine, 100ft below spur, banks
of Ogallala River 10 ft. wide and 6 ins
deep. drains S ascend
64.30 Wagon road bears N and S.
- 80.10 The cor. of secs 23, 24, 25 and 26.
This cor is 800ft. above ravine
Land mountainous
Soil very stony 4th rate - no timber
Mountainous land 80.10 One

S. 0° 01' W. bet. secs. 23 and 24

Over ascending land

- 40.00 Set a blue limestone 20x16x10 ins 10 ins in
ground, for 1/4 sec. cor. marked 1/4 on W.
face raise mound of stone 2 ft base
1/4 ft. high N. of cor. Bits impracticable
42.50 Top of ridge, 250 ft. above sec cor., bears
S. 20° W and N. 20° E. descend
- 80.00 Set a blue limestone 18x14x10 ins - 12 ins in ground
for cor. of secs. 13, 14, 23 and 24 marked 3 notches
on S. and 1 notch on edges, raise mound
of stone 2 ft base 1/4 ft high N. of cor.
Bits impracticable
Land mountainous
Soil very stony 4th rate

Subdivision of Twp. 7 N.R. 3 E. continued

No timber
Mountainous land 80.00 chs.

October 29, 1897 at cor. of secs. 13, 14, 23 and 24.
we set of 13° 43' S on decl. arc of one of the instruments and at 11° 54' a.m. m.t. obliqua the sun on the meridian the resulting date is 4° 20' N

Thence we run -

S. 89° 59' E on a random line bet. secs 13 and 24

Over ascending land

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect E. bdy. of Twp. 3 like N of cor. of sec. 13, 18
19 and 24 - established by us Oct. 15-

Thence we run -

N. 89° 58' W on a true line bet. secs. 13 and 24

Over descending land -

17.50 Bottom of ravine, 400 ft below sec cor. branch of
"Ogden River" 6 ft wide and 6 ins deep.
drains S. 30° W. ascend

18.50 Wagon road bears N. 30° E and S. 30° W.

39.99 Set a sandstone, 6x14x8 ins - 11 ins in ground, for
1/4 sec. cor. marked 1/4 on N. face, raise
mound of stone 2 ft base 1/4 ft high N of cor.
Pits impracticable -

60.00 Top of ridge, 1000 ft above ravine, bears S. 15° W
N. 75° E, descend

79.98 The cor. of secs. 13, 14, 23 and 24

Land mountainous

Soil stony 4th rate -

No timber -

Mountainous land 79.98 chs.

11° 01' W. bet. secs. 13 and 14

Over descending land

19.00 Bottom of ravine, 200 ft below sec cor. drains W. ascend

27.60 Top of spur, 100 ft above ravine projects S. 70° W descend

40.00 Set a sandstone 18x8x6 ins. 11 ins in ground for 1/4
sec. cor. marked 1/4 on W. face raise mound

1st division Tp. 7 N. R. 3 E. continued

8 ft stone 2 ft base 1 1/2 ft high N of cor.
Pits impracticable

55.00 Bottom of draw, 300 ft below spur, drains N. 40° W.
Hence continued descent

66.00 Bottom of ravine, 100 ft below last draw, drains
N. 20° W. ascend

80.00 Set a blue limestone 25x15x11 ins. 18 ins in ground
for cor. of secs. 11, 12, 13 and 14 marked 4
notches on S. and 1 notch on E. edges
raise mound of stone 2 ft, base 1 1/2 ft high
W. of cor. Pits impracticable.
This cor. is 450 ft above ravine.

Land mountainous

Soil gravelly and stony sand & stones.
No timber

Mountainous land 80.00 chs.

S. 89° 08' E on a random line bet. secs 11 and 13

40.00 Set temp 1/4 sec. cor.

80.04 Intercept E. bkg. of Tp. 14 like S. of cor. of secs 7, 12
13 and 18 established by me Oct. 15-

Hence we run -

S. 89° 56' W on a true line bet. secs. 12 and 13

Over ascending land

16.00 Top of ridge 300 ft above sec. cor., bears
N. E. and S. W. descend

37.00 Bottom of draw, 500 ft below ridge, drains
N. W. ascend

40.04 Set a sandstone 20x12x6 ins. 15 ins in
ground for 1/4 sec. cor. marked 4 on
N. face, raise mound of stone 2 ft.
base 1 1/2 ft high N. of cor.
Pits impracticable.

45.00 Top of spur, 100 ft above ravine, projects
N. W. descend

65.00 Bottom of ravine, 350 ft below spur, drains
S. 25° W. ascend

80.04 The cor. of secs. 11, 12, 13 and 14
This cor. is 400 ft above ravine.
Land mountainous

Subdivision Tp 7. N.R. 3 E. continued

Soil sandy and stony 3rd and 4th rates
No timber
Mountainous land 80.04 chs.

No° or N. bet. secs. 11 and 12

Over ascending land

14.00 Top of spur, 150ft above sec. cor. projects S 20° W
Thence gentle ascent along W. slope

37.00 Top of same spur, 150ft above last crossing
Thence continue ascent along E. slope

40.00 Set a brown cobble stone 14x10x8ins. 9ins in ground
for 1/4 sec. cor. marked 1/4 on W. face raise
mound of stone 2ft base 1/4ft high W.D. cor.
Pits impracticable -

- 80.00 Set a brown cobble stone 18x12x6ins 12ins in
ground, for cor of secs. 1, 2, 11 and 12
marked 5 notches on S. and 1 notch on
E. edges, raise mound of stone 2ft.
base 1/4ft high W.D. cor.

Pits impracticable

This cor. is located on top of ridge
200ft above 1/4 sec. cor. bears S 30° E
D. S 30° W.

Sand mountainous

Soil very stony 4th rate

No timber

Mountainous land 80.00 chs.

N. 89° 56' E. on a random line bet. secs. 1 and 12

40.00 Set temp 1/4 sec cor.

80.17 Intersect E. bdy. of Tp 10 blks N of cor. of secs. 1.. 6.
7 and 8, established by us Oct. 15.

Thence we run

West on a true line bet. secs. 1 and 12

Over descending land.

10.00 Bottom of draw, 100ft below sec. cor. drains
S. 10° W. ascend.

38.00 Top of spur, 390ft above ravine, projects S 10° W
descend

Subdivision of T 7 N R 3 E - Continued

- 40.08 $\frac{1}{2}$ Set a brown cobble stone 14x10x6 ins. 9 ins. in ground for $\frac{1}{4}$ sec. cor. mashed $\frac{1}{4}$ on face, raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
- 5.00 Bottom of draw 200 ft. below spur drains S. ascend.
- 6.400 Top of spur 185 ft above ravine projects S. descend
- 7.000 Bottom of draw 100 ft below spur drains S. ascend.
- 8.017 The cor. of secs. 1, 2, 11, and 12.
This cor. is 2.00 ft above ravine.
Land mountainous
Soil sandy and stony 3rd and 4th ratio.
No timber
Mountainous land 80/17 chs.

- N 5° 0' W on a random line between 1 and 2.
- 4.000 Set stone $\frac{1}{4}$ sec. cor.
- 8.040 Intersect N. bdy of Sp. 10 th & N. of cor of secs 1, 2, 3 5 and 3 6, which is a sandstone 5x13x8 ins. above ground, mashed and weathered as described by surveyor general.
These we name
S 0° 3' N on a true line betw. cor. 1 and 2,
Over descending land
- 4.00 Bottom of ravine 75 ft below sec. cor. drains N. 50° W. also enter quarrying area timber
was same as ravine, ascend.
- 13.00 Learn timber, bears E and N.
- 15.00 Top of spur, 150 ft. above ravine, project & descend
- 3.8.00 Enter quarrying area timber, bears E and N.
- 3.9.00 Bottom of ravine 125 ft. below spur, drains N. ascend.
- 40.40 Set a brown cobble stone 15x12x6 ins 10 ins in ground for $\frac{1}{4}$ sec. cor. mashed $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base 1 $\frac{1}{2}$ ft high N. of cor. Pits impracticable.
A quarrying area 6 ins diam had N. 80° E. 30° like dirt. mashed $\frac{1}{4}$ S. 1 B.T.

Subdivision of T. 7 N R. 3 E. - Continued.

	a quarrying area 5 ins diam near N 60° E. 35' lds. dist. marshed $\frac{1}{4}$, $\frac{1}{2}$ B.T.
43.00	Lean quarrying asf timber, marshy and st.
80.40	The cor of secs 1, 2, 11, and 17. Land-mountainous Soil, sandy loam and stony 3 rd and 4 th rates Timber, quarrying asf. Mountainous or heavily timbered land 80.40 chs
	October 29, 1897.

October 30, 1897. From the cor of secs 2, 3, 34, and 35 on S bdy of Spur which is a quantity stone 6 x 11 x 9 ins above ground, properly marshed and weathered, no run Noor 3 ft. Int. secs 34 and 35.

On descending land.

30.00 Bottom of ravine 400 ft. below cor. cor. branch of Ogden River 40 ft. wide 18 ins deep channel N 70° 30' accend.

40.00 Set a blue limestone 24 x 15 x 8 ins 18 ins in ground for cor. unmarshed $\frac{1}{4}$ on N face rare mound of stone 2 ft base $\frac{1}{2}$ ft high N of cor. Pits impracticable

49.00 Top of spur 500 ft. above ravine. granite N. described.

80.00 Set a brown cobble stone 27 x 15 x 13 ins 21 ins in ground for cor. of secs 2, 6, 27, 34, and 35. marshed with 1 notch on S. and 2 notches on E edges. rare mound of stone 2 ft base $\frac{1}{2}$ ft high N of cor. Pits impracticable This cor. is 450 ft below spur.

Land-mountainous

Soil, very stony 4th rate.
No timber.

Mountainous land 80.00 chs.

S 89° 57' E. on a random line bet. secs. 26 and 35

Subdivision of T. 7 N., R. 3 E. - Continued.

4.000	Set time $\frac{1}{4}$ sec. cor.
8.004	Intersect N. and S. line 12 rods, S. 8 cor. of sec. 25, 26, 35, and 36.
	Thus we run
	S. $87^{\circ} 58' W$ on a true line bet. sec. 26 and 35.
	On ascending land.
12.00	Top of spur, 100 ft above sec. cor. projects S. $20^{\circ} E$. discnd.
24.00	Bottom of draw 100 ft. below spur, drains S. ascend.
40.02	Set a sand stone 16 x 8 x 6 ins 11 ins in ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor. Pits impracticable.
5.000	Top of spur, 200 ft above draw, projects S. $25^{\circ} W$. discnd.
8.004	The cor. of sec. 26, 27, 34, and 35. This cor. is 600 ft. below spur. Land mountainous Soil, stony & <u>thin</u> slate. No timber Mountainous land 8.004 ch.

October 30, 1897: At cor. of sec. 26, 27, 34, and 35
we set off $41^{\circ} 8'$ now the lat arc, $14^{\circ} 00' S$ on
the declination of one of the instruments and
at 9th hour a.m. L.M.T. determine a true meridian
with the solar.

Thus we run

N. $00^{\circ} 2' 36''$ bet. sec. 26 and 27.

On ascending land.

8.00 Bottom of ravine, 200 ft below sec. cor. branch of Ogallala
River 30 rods wide, $1\frac{1}{4}$ ins deep drains S. $25^{\circ} 47' W$ ascend.

8.00 Waggon Road, bears N. $20^{\circ} E$. and S. $20^{\circ} W$.

4.000 Set a gray lime stone 15 x 6 x 6 ins, 10 ins in
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
N. face, raise mound of stone 2 ft base
 $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Subdivision J. T.D., R. 3 E. - Continued

- 4700 Top of draw, 500 ft. above ravine, projects S. E.
decided
6400 Bottom of ravine 200 ft. below open draw
S. 20° E. decided
8,000 Set a brown cobble stone 16x8x6 ins, 1 ins
in ground for cor. sides 2, 23, 26, and 27,
marked with 2 notches on. Sand & edge
around stone 2 ft. base 1 ft. high
Hd cor. Site impracticable.
This cor. is 250 ft. above ravine
Land mountainous
Soil, stony & thrate.
No timber
Mountainous land 5,000 elev.

- N. 89° 58' E. on a random line bet. rcs. 23 and 26.
Set stump tree cor.
Entire road S. line 5 ft. N. of cor. sides
23, 24, 25, and 26.
Thence we run
First on a true line bet. rcs. 23 and 26.
On acceding land.
600 Top of draw, 125 ft. above ravine, projects S. decided
13,000 Bottom of draw, 200 ft. below open, chains S. decided.
2,000 Top of draw, 150 ft. above ravine, projects S. 15° S. E.
decided.
3,000 The point for 1/4 sec. cor. falls on rock in place of
land S. by 4 ft. E. and N. 10 ins above ground, on which we
Cut a cross (X) at exact cor. point. for 1/4 sec
cor. marked. Then N. side of cross, and runs
around of stone 2 ft. base 1 1/2 ft. high N. of cor.
Site impracticable.
4,600 Bottom of ravine, 350 ft. below open, Barnet of
Cedar River, 15 ft. wide 10 ins deep, chains
S. 50° S. decided.
7,700 The cor. of rcs. 2, 23, 26, and 27.
This cor. is 450 ft. above ravine.
Land mountainous
Soil, stony & thrate
No timber

Subdivision Tp 7, N.R. 4 E. continued.

Mountainous land 79.96 acs.

71.00 27.11. bet. secs. 22 and 23

Over ascending land.

5.00 Top of spur, 180 ft above sec. cor. projects S.
60° E descend.

20.00 Bottom of ravine, 250 ft below spur, drains S.
E. ascend

40.00 Set a brown cobble stone 15x13x11 ins - 10 ins above
ground, for 1/4 sec. cor. marked from W. face
raise mound of stone 2 ft base 1/4 ft high W.
of cor. Pits impracticable.

69.00 Top of spur, 300 ft above ravine, projects S. 60° E.
descend.

- 80.00 Set a brown cobble stone 20x12x8 ins - 15 ins in ground.
in crn. of secs. 4, 15, 22 and 23, marked
3 notches on N. and 2 notches on E. edges
raise mound of stone 2 ft. base 1/4 ft. high
W. of cor. Pits impracticable.
This cor. is 100 ft below spur.

Land mountainous

Soil, sandy and stony 3rd and 4th rates
no timber

Mountainous land 80.00 acs.

East on a random line bet. secs. 14 and 23.

40.00 Set temp 1/4 sec. cor.

80.08 Intersect N. and S. line 12. the N. of cor. of sec.
13, 14, 23 and 24.

Thence westward

71.89 35' N. in a true line bet. secs. 14 and 23

Over descending land

38.00 Bottom of ravine 300 ft below sec. cor. drains
S. ascend

40.04 Set a blue limestone 24x14x6 ins - 18 ins in ground
for 1/4 sec. cor. marked from W. face, raise
mound of stone 2 ft base 1/4 ft high
W. of cor. Pits impracticable.

48.00 Top of spur, 300 ft above ravine projects S. 60° E.

Subdivision Tp 7 N.R. 3 E. Continued

	descend.
53.00	Bottom of draw, 100 ft below spur drains S. 40° E. ascend
- 80.08	The cor. secos. 14, 15, 22 and 23 Sand mountainous Soil gravelly and stony 4 th rate No timber Mountainous land 80.08 chs.

October 30, 1897. At cor. of secos. 14, 15, 22
and 23 we set off 14° 00' on decl. arc,
of one of the instruments and at 11^h 54^m
a.m. L.M.T. observe the sun on the
meridian the resulting lat. is 41° 20' N

Thence we run

S 0° 02' W. bet. secos. 14 and 15

Over descending land

0.00 Bottom of draw, 50 ft below sec cor. drains S.
70° E ascend

27.00 Top of ridge 100 ft above draw, bears S. 20° W.
and N. 20° E. descend

40.00 Set a brown cobble stone 10x10x6 ins in ground
for 1/4 sec. cor. Marked 1/4 on W. face raised
mound of stone 2 ft base 1 1/2 ft high W.
cor. Pits impracticable

44.00 Bottom of draw, 100 ft below ridge, drains N. 75° W.
ascend

57.00 Top of spur, 90 ft above ravine, projects N. 70° W. descend

65.00 Bottom of draw, 60 ft below spur, drains W. ascend.

70.00 Top of spur, 50 ft above draw, projects N. W. descend

- 80.00 Set a sandstone 14x14x8 ins 9 ins in ground
for cor. of secos. 10, 11, 14 and 15 marked
4 notches on S. and 2 notches on E.
edges raise mound of stone 2 ft base
1 1/2 ft. high W. cor. Pits impracticable

Sand mountainous

Soil gravelly and stony 4th rate

No timber

Mountainous land 80.00 chs.

Subdivision Tp. 7. N. R. 3. E. Continued

S. $89^{\circ}55' E$ on a random line bet. secs. 11 and 14.
 4000 ft temp $\frac{1}{4}$ sec. cor.
 80.02 Diverge N. and S. line rocks S of cor. spccs.
 11, 12, 13 and 14 :
 Since we run
 N. $89^{\circ}59' W$. on a true line bet. secs. 11 and 14
 Over ascending land -
 6.00 Top of spur, 100 ft above sec. cor. projects
 S. $20^{\circ} W$ descend
 20.00 Bottom of ravine, 100 ft below spur, drains
 S. $10^{\circ} E$ ascend
 40.01 Set a sandstone 10x10x8 ins - 8 ins in ground, for $\frac{1}{4}$
 sec. cor. marked $\frac{1}{4}$ on N face, raise mound
 of stone 2 ft. base 1/4 ft. high N of cor
 Pits impracticable
 46.00 Top of ridge, 200 ft above ravine, bears N. $15^{\circ} E$. and
 S. $18^{\circ} W$. descend.
 77.00 Draw, 100 ft below ridge, drains N. $45^{\circ} W$ ascend.
 80.02 The cor. of secs. 10, 11, 14 and 15
 Land mountainous
 Soil sandy and stony 3rd and 4th rates
 No timber
 Mountainous land 800' abs.

20002 N. bet. secs. 10 and 11.
 Over descending land
 5.00 Bottom of ravine, 80 ft below sec. cor. drains N. ascend
 14.00 Top of spur, 90 ft above ravine, projects S. $20^{\circ} W$ descend
 26.00 Bottom of ravine, 120 ft below spur, drains S. $65^{\circ} W$.
 ascend -
 40.00 Set a brown cobble stone 18x12x8 ins 12 ins in ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, raise
 mound of stone 2 ft. base 1/4 ft. high W. of
 cor. Pits impracticable -
 46.00 Top of spur, 200 ft above ravine, projects S. $85^{\circ} W$. descend
 65.00 Bottom of ravine, 180 ft below spur, drains S.
 80° W. ascend.
 70.00 Top of spur, 55 ft above ravine, projects S. $80^{\circ} W$.
 descend
 80.00 Set a brown cobble stone 13x8x6 ins 8 ins

Section line of Tp. 7, N. R. 3. E. continued

in ground on cor. of secs. 2, 3, 10 and 11
marked 5 notches on S. end 2 notches
on E. edges. raise mound of stone 2 ft base
 $1\frac{1}{2}$ ft high N. of cor. pits impracticable
Sand mountainous
Soil sandy and stony 3rd and 4th rates
Geo. timber
Mountainous land 80.00 obs

S. 89°59' E. on a random line bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.94 Intercept N. and S. line 12 lks S. of cor. of
secs. 1, 2, 11 and 12 -
Hence we run
S. 89°56' W. on a true line bet. secs. 2 and 11.
Over descending land -
39.97 Set a brown cobble stone 16 x 14 x 10 ins. 10 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
raise mound of stone 2 ft base $1\frac{1}{2}$ ft high
N. of cor. Pits impracticable
0850 Bottom of ravine, 900 ft below sec cor. drains
 7.60° N. ascend.
71.00 Top of spur, 400 ft above ravine, projects 7.60° N.
ascend
- 79.94 The cor. of secs. 2, 3, 10 and 11 -
Sand mountainous
Soil sandy and stony 3rd and 4th rates
Geo. timber
Mountainous land 79.94 obs

C. 0275. on a random line bet. secs. 2 and 3.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.63 Intercept N. bdy. of Tp. 15 lks W. of cor. of secs.
2, 3, 34 and 35, which is a sandstone
5 x 12 x 8 ins above ground, marked and
written as described by surveyor
general.
Hence we run -
 $1.00^{\circ} 47'$ N. on a true line bet. sec. 2 and 3

Subdivision Tp. 7, N.R. 3 E. continued

- Over descending land through scattering quaking asp. timber -
- 6.00 Leave scattering quaking asp. bears E and W.
- 28.00 Bottom of ravine, 180 ft below sec. cor. drains
S.W. ascend
- 40.63 Set a red sandstone 16x8x6 ins. 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face
raise mound of stone 2 ft base $1\frac{1}{2}$ ft high
W.S. cor. Pits impracticable
- 44.00 Top of spur, 100 ft. above ravine, projects S. 20° W.
descend
- 75.50 Wagon road bears N. 20° E. and S. 20° W.
- 76.00 Bottom of ravine, 200 ft below spur, drains
S. 20° W. ascend
- 80.63 The cor. of secs. 2, 3, 10 and 11
Land mountainous
Soil sandy and gravelly 3rd rate
Timber quaking asp.
Mountainous land 80.63, chs.
- October 30. 1897

- November 1, 1897: From cor. of secs. 3, 4,
33 and 34 on N. bdy. of Tp. which is a
red sandstone 5x18x5 ins above ground
properly marked and witnessed, we run
N. 20° W. bdy. secs. 33 and 34
- Over descending land
- 15.00 Bottom of Canon, 400 ft. below sec. cor. South Fork
of Ogden River 40 lbs wide 18 ins. deep, drains
W. ascend
- 25.00 Saw Mill bears E. 39.00 chs.
- 27.00 Spring branch 3 lbs. wide 2 ins. deep drains N.W.
- 28.00 J. H. Slates Cabin bears W. 35.0 chs.
- 29.00 Wagon road bears E and W.
- 40.00 Set a brown cattle stone 16x10x5 ins. 11 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face raise
mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W
S. cor. Pits impracticable
- 64.00 Top of spur 100 ft. above canon, projects S.E.
descend, also N. W. Slates Cabin

Subdivision of Twp. 7 N. R. 3 E. continued.

- bears E. 13,000 chs.
- 70.00 Bottom of draw, 60 ft. below spur, drains S. ascend
- 78.00 Top of spur, 120 ft. above draw, projects N. 25° E.
descend
- 80.00 Set a gray sand stone 19x8x6 ins. 13 ins in
ground, for cor. of secs. 27, 28, 33 and 34
marked 1 notch on N. and 3 notches on
E. edges. raise round of stone 2 ft. base
 $1\frac{1}{2}$ ft. high N. of cor. This impracticable
Sand mountainous.
Soil sandy loam and clay 2nd and 3rd rates.
No timber.
Mountainous land 80.00 chs.
-
- S. 89°57' E on a random line bet. secs. 27 and 34
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line 5 lks. N. of cor. of
secs. 26, 27, 34 and 35
Thence we run
S. 89°55' W. on a true line bet. secs. 27 and 34.
- 4.00 Bottom of ravine. 100 ft below sec. cor. branch of
"Ogden River" 30 lks. wide 14 ins. deep, drains
S. 20° W. ascend
- 5.00 Wagon road bears N. 20° E. and S. 20° W.
- 30.00 Top of spur, 600 ft. above ravine, projects S.
90° W. descend
- 40.05 Set a gray sand stone 18x14x5 ins. 12 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise
round of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of
cor. This is impracticable.
- 63.00 Bottom of ravine, 500 ft below spur, drains S. 10° W.
ascend, also wagon road bears N. 10° E. and S. 10° W.
- 80.10 The cor. of secs. 27, 28, 33 and 34
This cor. is 150 ft above ravine
Sand mountainous
Soil sandy and stony 2nd and 4th rates
No timber
Mountainous land 80.10 chs.
- November 1. 1892: At this cor. we set off
 $41^{\circ}18' N$ on lat. arc $14^{\circ}38' S$ on decl. arc of

Subdivision Tp. 7 N.R. 3 S. continued

one of the instruments, and at 9^h 0^m^s₃₀
a.m. l.m.t. determine a true meridian
with the solar.

0° 02' W. bet. secs. 27 and 28

Over descending land

15.00 Bottom of draw, 905 ft. below sec. cor. drains S. 10° E. ascend

40.00 a sand stone 19x9x1 ins. 13 ins in ground, for
1/4 sec. cor. marked 1/4 on W. face, raise
mound of stone 2 ft. base 1 1/2 ft. high N.
of cor. Ticks impracticable

65.00 Top of spur, 25 ft above ravine, projects S. 25° E. descend

68.00 Head of draw, 50 ft. below spur, drains N. 40° E. ascend

80.00 a red sand stone 18x10x6 ins. 12 ins in ground
for cor. of secs. 21, 22, 27 and 28, marked 1/4
notches on S. and 3 notches on E. edges
raise mound of stone 2 ft. base 1 1/2 ft. high
W. of cor. Ticks impracticable
This cor. is 70 ft. above draw.

Land mountainous

clay 3rd. rate

No timber

Mountainous land 80.00 ches.

S. 89° 55' E. on a random line bet. secs. 22 and 27.

40.00 Set temp. 1/4 sec. cor.

80.07 Intersect N. and S. line 16 lbs. S. of cor.
of secs. 22, 23, 26 and 27

Thence, we run

S. 89° 58' W. on a true line bet. secs. 22 and 27

Over descending land

23.00 Top of ridge, 250 ft. above sec. cor. bears N. E.
and S. W. descend

40.08 Set a gray sandstone 16x8x6 ins. 11 ins. in ground
for 1/4 sec. cor. marked 1/4 on W. face
raise mound of stone 2 ft. base 1 1/2 ft.
high N. of cor. Ticks impracticable

50.00 Bottom of ravine, 200 ft. below ridge, drains S. ascend.

Subdivision of Tp. 7 N.R. 3 E. continued

60.00	Top of spur, 100 ft. above ravine, projects S. descend
70.00	Bottom of draw, 80 ft below spur, drains S. 10° E ascend
80.02	The cor. of secs. 21, 22, 27 and 28 This cor. is 150 ft above draw- Land mountainous Soil sandy, clay and gravelly 3rd rate No timber Mountainous land 80.02 chs.

70.00 1/2 W. bet. secs. 21 and 22
Over ascending land
8.00 Top of spur, 125 ft above sec. cor. projects S. 15° W. descend
17.00 Bottom of ravine, 300 ft below spur, drains S 70° W. ascend
38.00 Top of spur, 350 ft. above ravine, projects S. 80° W. descend
40.00 Set a red sand stone 18x11x7 ins., 12 ins in ground for 1/4 sec. cor. marked 1/4 on W. face, raise mound of stone 2 ft. base 1/4 ft. high W. of cor. Pits impracticable
61.00 Bottom of ravine, 400 ft. below spur, drains S. 80° W. ascend
76.00 Top of spur, 300 ft above ravine, projects N. 80° E. descend
80.00 Set a red granite 14x12x8 ins. - 9 ins in ground for cor. of secs. 15, 16, 21 and 22. marked T.P.N. on N. E. and R. 3 E on S. E. faces with 3 notches on S. and E. edges, raise mound of stone 2 ft. base 1/4 ft. high W. of cor. Pits impracticable Land mountainous Soil clay and gravel 3rd. rate- No timber Mountainous land 80.00 chs.

7.89 58' E. on a random line bet. secs. 15 and 22
40.00 Set temp. 1/4 sec. cor.
79.98 Intersect N and S. line 7 ins. S. of cor. of secs. 14, 15, 22 and 23

Subdivision of Tp. 7 N.R. 3 E. continued

Thence we run

S. $89^{\circ} 55' W.$ on a true line bet. secs. 15 and 22.
Over ascending land

25.00 Top of ridge, 32 ft above sec. cor. bears N. E.
and S. W. descend

39.99 Set a sand stone 24x12x8 ins. 18 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2 ft. base $1\frac{1}{2}$ ft high N. of
cor. Pits impracticable

November 1. 1897: At this cor. we set off
 $14^{\circ} 41' S.$ on decl. arc. Of one of the in-
struments and at $11^{\text{h}} 54^{\text{m}}$ a.m. l.m.t.
observe the sun on the meridian
the resulting latitude is $41^{\circ} 20' W.$

50.00 Bottom of ravine. 400 ft. below ridge, drains
 $S. 70^{\circ} W.$ ascend

77.00 Top of spur, 200 ft above ravine, projects
 $S. 70^{\circ} W.$ descended

29.98 The cor of secs 15, 16, 21 and 22
Island mountainous
Soil sandy and gravelly 3rd. rate
No timber
Mountainous land 79,980 ac.

N. $0^{\circ} 02' W.$ bet. secs. 15 and 16

Over descending land

40.00 Set a brown cobble stone 17x11x7 ins. 12 ins in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
Pits impracticable

47.00 Bottom of canon, 400 ft. below sec. cor., "Beaver
Creek" 10 lks. wide 6 ins deep, drains
 $S. 20^{\circ} W.$ ascend abruptly.

43.40 wagon road bears $N. 20^{\circ} E.$ and $S. 20^{\circ} W.$

73.00 Thence gentle ascent along E. slope

80.00 Set a gray sand stone 24x12x8 ins. 18 ins
in ground, for cor. of secs. 9, 10, 15 and 16,
raise mound of stone 2 ft. face $1\frac{1}{2}$ ft.
high W. of cor. Pits impracticable
This cor is 450 ft above canon.

Subdivision of Tp. 7 N.R. 38. continued

Sand mountainous

Soil gravelly and stony 4th rate

One timber

Mountainous land 80.00 chs.

71.8955° E. on a random line bet. secs. 10 and 15
4000 ft temp. 14 sec. cor.

80.06 Direct N and S line 17 lks. N. of cor. of
secs. 10, 11, 14 and 15

Thence we run

Direct on a true line bet. secs. 10 and 15

Over ascending land

12.00 Dip of spur. 120 ft above sec. cor., projects N. 15°
W. descend

40.03 Set a sand stone 18x10x8 ins. 12 ins in ground
for 1/4 sec. cor. marked from N. face, nice
rounded, 2 stone 8 ft face 1 1/4 ft high
N. of cor. This impracticable

50.00 Bottom of canon. 450 ft. below spur "Beaver
Creek" 10 lks wide 6 ins deep, drains
N. W. ascend

51.00 Wagons road bears. N.E. and S.W.

80.06 Edge cor. of secs. 9, 10, 15 and 16

This cor is 350 ft above canon.

Sand mountainous

Soil gravelly and stony 4th rate

One timber

Mountainous land 80.06 chs.

71.00 N. bet. secs. 9 and 10

Over ascending land

16.00 Dip of spur. 120 ft above sec. cor., projects S. 70° E.
descend

42.00 Stone 8 ins. 150 ft. below spur. drains S. 70° E
ascend

40.00 Set a non soluble stone 17x9x6 ins. 12 ins in
ground for 1/4 sec. cor. marked from N. face
nice rounded 2 stone 2 ft face
1 1/4 ft high N. of cor. This impracticable.

Subdivision of Tp 7 N.R. 3 E. continued

57.00 Sp of spur, 200 ft. above ravine, projects S. 70° E
descend

73.00 Bottom of draw, 70 ft. below spur, drains S. 70° E.

- 80.00 a brown cobble stone 20 x 17 x 6 ins. 15 ins. in
ground. for cor. of secs. 3, 4, 9 and 10 marked
5 notches on S. and 3 notches on E edges
raise mound of stone 2 ft. base 1 1/2 ft.
N. of cor. pits impracticable
This cor is located on top of spur, 100 ft
above draw, projects S. 70° E.

and mountainous

Soil sandy stony and gravelly ~~2nd~~ and generates
no timber
Mountainous land 80.00 chs.

East on a random line bet. secs 3 and 10

4000 Set temp. 1/4 sec. cor.

80.1/2 Intersect N. and S. line 9 ft. N. of cor. of
secs. 2, 3, 10 and 11.

Thence we run

89° 56' W. on a true line bet. secs. 3 and 10
Over descending land

20.00 Bottom of ravine. 120 ft below sec. cor. drains S.
80° W. ascend, also wagon road parallel
to ravine.

30.00 Sp of spur. 90 ft. above ravine, projects S.W. descend

34.60 Wagon road bears. N and S.

36.00 Bottom of canyon 205 ft. below spur, "Beaver
Creek" 8 ft. wide 5 ins deep, drains
S. ascend

40.06 Set a brown cobble stone 18 x 10 x 8 ins 17 ins in
ground for 1/4 sec. cor. marked 1/4 on N
face, raise mound of stone 2 ft. base
1 1/2 ft. high N. of cor. pits impracticable

62.00 Top of spur, 295 ft. above canon, projects
S. 6° descend

70.00 Bottom of draw, 90 ft. below spur, drains S.E.
ascend-

- 80.1/2 The cor. of secs. 3, 4, 9 and 10

This cor is 125 ft above draw.

Subdivision of Tp. 7 N.R. 36. Continued

Sand mountainous
Soil gravelly and stony 3rd and 4th rates.
No timber
Mountainous land 80.17 ac.

- 30002 W on a random line bet secs.
3 and 4
40.00 Set temp. 1/4 sec. cor.
80.80 Intercept N. bdy. of Tp. 7 like W of cor. of secs.
3, 4, 33 and 34, which is a sandstone
5x12x10 ins above ground, marked and
written as described by surveyor
general.
Hence we run
3001' W on a true line bet. secs. 3 and 4.
Over ascending land
30.0 Top of spur. 50 ft. above sec. cor. projects N. 80° E. descend
15.00 Bottom of draw. 150 ft. below spur, drains S. 70° E. ascend.
21.00 Top of spur, 75 ft. above draw, projects S. 75° E. descend.
31.00 Bottom of draw. 75 ft. below spur, spring branch 1 ft. wide
in deep, drains E. ascend.
37.00 Top of spur, 100 ft. above draw, projects E. descend.
40.80 Set a brown cobble stone 14x12x6 ins, 9 ins. in ground
for 1/4 sec. cor. marked from W face, raise round
of stone 2 ft. base 1/4 ft. high. W face. Its impracticable
43.00 Head of draw. 140 ft. below spur, drains E. ascend
54.00 Top of spur, 75 ft. above draw, projects S. 80° E. descend
78.50 Bottom of draw, 150 ft. below spur, drains S. E. ascend
80.80 The cor. of secs. 3, 4, 9 and 10
Sand mountainous
Soil, sandy, gravelly loam and stony. 2nd and
4th rates.
No timber
Mountainous land 80.80 ac.

November 1, 1897

November 2, 1897: From cor. of secs. 4, 5.
32 and 33 on S. bdy. of Tp. which is a gray
quality cobble stone 5x10x8 ins. above

Subdivisor T.P. 7 N.R. 38. continued

ground. properly marked and with
we run

$0^{\circ}03' W.$ bet. secs. 32 and 33.

Our descending land.

- 1.25 South Fork of Ogden River "60 lks. wide
18 ins. deep. drains S. $65^{\circ} W.$ ascend
5.55 A. G. Slates cabin bears 409 chs. E.
16.86 Wire fence $N. 80^{\circ} E.$ and $S. 80^{\circ} W.$
18.36 Wagon road bears $N. 80^{\circ} E.$ and $S. 80^{\circ} W.$
38.00 Top of spur, 200 ft. above sec. cor. projects E
descend
40.00 Set a brown cobble stone 18x8x8 ins. 12 ins
in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on W. face. raise mound of stone 2 ft.
base $\frac{1}{4}$ ft. high W. of cor. Pits impracticable
46.00 Bottom of ravine. 70 ft below spur, Pine Creek"
10 lks. wide 6 ins deep, drains S $65^{\circ} E$
ascend
48.00 Wagon road bears $N. 65^{\circ} W.$ and $S. 65^{\circ} E.$
75.00 Top of spur, 175 ft. above ravine, projects
E. Thence slight descent
80.00 Set a brown cobble stone 30x14x8 ins
22 ins in ground for cor. of secs. 28
29, 32 and 33, marked 1 notch
on S. and 4 notches on E. edges
raise mound of stone 2 ft. base
 $\frac{1}{4}$ ft high W. of cor. Pits impracticable
Land mountainous
Soil gravelly and stony 3rd and 4th fl.
No timber.
Mountainous land 80.00 chs.
November 2.: At this cor. we set $87^{\circ}41'18''$
N. on lat. arc, $14^{\circ}55' S.$ on decl. arc. of
one of the instruments, and at $8^{\text{h}}00'$
a.m. l.m.t. determine a true
meridian with the solar.

$87^{\circ}57' E.$ on a random line bet. secs. 28 and 33.

40.00 temp. $\frac{1}{4}$ sec. cor.

79.92 Direct ext N. and S. line 12 lks. S. of cor.

2. Subdivision of Twp N.R. 3 E. continued

secs. 27, 28, 33 and 34.

Thence westward

S. 89° 58' W on a true line bet. secs. 28 and 33.

Over ascending land

2.00 Top of spur, 25 ft. above sec. cor., projects S. 25° E descend

13.00 Head of draw, 100 ft. below spur, drains S. ascend

23.00 Top of spur, 220 ft. above draw, projects S. 10° W. descend.

32.00 Bottom of draw, 150 ft. below spur, drains S. 10° W. ascend

37.00 Top of spur, 100 ft. above draw, projects S. 20° W. descend

39.96 Set a sandstone 36x10x6 ins. 28 ins. in ground

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor.

This impracticable -

60.00 Bottom of ravine, 275 ft. below spur. "Beaver Creek"

15 ft. wide 7 ins. deep drains S. ascend.

63.00 Wagon road bears N. and S.

79.92 The cor. of secs. 28, 29, 32 and 33.

This cor. is 150 ft. above ravine
Sand Mountainous

Soil sandy gravelly and stony 2nd, 3rd, and 4th ratios
No timber

Mountainous land 79.92 ins. Chs.

N. 0° 23' W. bet. secs. 28 and 29

Over ascending land

37.00 Top of spur, 250 ft. above sec. cor., projects E. descend

37.50 Bottom of ravine, 100 ft. below spur, drains S. E. also

wagon road parallel to ravine, ascend abrupt

40.00 Set a brown cobble stone 16x10x8 ins. 11 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise
mound of stone 2 ft. base $\frac{1}{4}$ ft. high N. of cor.

This impracticable

47.00 Thence gradual ascent

- 80.00 Set a granite boulder 18x16x10 ins. 12 ins. in ground

for cor. of secs. 20, 21, 28 and 29 marked 2

notches on S. and 4 notches on E. edges,

raise mound of stone 2 ft. base $\frac{1}{4}$ ft. high

N. of cor. This impracticable

This cor. is 200 ft. above ravine

Land mountainous

Subdivision S. P. 7 N.R. 3 E. continued

Soil gravelly and stony 3rd and 4th rates
No timber
Mountainous land 80.00 chs.

11.89° 58' E. on a random line bet. secs. 21 and 28.
40.00 Set temps. $\frac{1}{4}$ sec. cor.
80.00 Intercept N. and S. line 12 lbs N of cor. of secs.
21, 22, 27 and 28
Thence we run
1189.58° W. on a true line bet. secs. 21 and 28.
Over ascending land
1.50 Top of spur, 40ft above sec. cor. projects S. 10° W
descend
2.0.00 Bottom of ravine 200ft. below spur, drains
S. 60° W. ascend
40.00 Set a sandstone 20x11x9 ins, 15 ins in ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, ravine
mound of stone 2 ft. base $\frac{1}{4}$ ft. high N of cor.
Pits impracticable
41.00 Top of spur, 180ft above ravine, projects S. W. descend
55.00 Bottom of ravine 250ft. below spur, "Beaver Creek"
12 ft. wide 6 ins deep. drains S. ascend
58.00 Hagon road bears N. and S.
80.00 The cor. of secs. 20, 21, 28 and 29
This cor. is 200ft. above ravine
Land mountainous
Soil sandy, gravelly and stony 2nd 3rd and 4th
rates
No timber
Mountainous land 80.00 chs.

S. 10° 03' W. bet. secs. 20 and 21

Over ascending land

5.00 Top of spur, 50ft. above sec. cor. projects S. 70° E. descend
26.00 Cabin bears 28.00 chs. E.
28.00 Bottom of ravine, 100 below spur, drains
E. ascend
34.00 Top of spur, 120ft above ravine. projects E. descend
40.00 Set a brown cobble stone 18x14x8 ins, 12 ins in ground

Subdivision of Twp. 7 N.R. 38. Continued

for $\frac{1}{4}$ sec. cor. marked #4 on N. face raise
mount of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N.W. cor.
Piles impracticable

47.00 Bottom of ravine, 125 ft. below spm. "Birch Creek"
3 lks wide 2 ins. deep, drains S.E. ascend

52.00 Thence ascend along E. slope

- 80.00 Set a brown cobble stone 16 x 12 x 6 ins., 11 ins in
ground, for cor. of secs. 16, 17, 20 and 21
This cor. is 750 ft. above ravine

Sand mountainous

Soil gravelly and stony 3rd and 4th rates
No timber

Mountainous land 80.00 chs.

5.895⁰ E. on a mudstone line bet. secs. 16 and 21

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line 7 lks. S. of cor. of secs.
15, 16, 21 and 22

Thence we run

West on a true line bet. secs. 16 and 21.

Over descending land

18.00 Bottom of ravine, 350 ft. below sec. cor. "Bear Creek"
8 lks. wide 6 ins deep, drains S. 20° E. ascend

19.00 Wagon road bears N. 20° E. and S. 20° W.

26.00 Top of spm 150 ft. above ravine, projects S. E.
descend

32.00 Bottom of ravine 100 ft below spm, "Rock Creek"

8 lks. wide 3 ins. deep, drains S. E. ascend

40.05 Set a brown cobble stone 15 x 8 x 8 ins., 10 ins in ground,
for $\frac{1}{4}$ sec. cor. marked #4 on N. face, raise
mount of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N.W. cor.
Piles impracticable

40.00 Top of spm, 400 ft above ravine, projects S. 20° E. descend.

72.50 Bottom of draw, 40 ft below spm drains S. 20° E. ascend

- 80.10 The cor. of secs. 16, 17, 20 and 21

Sand mountainous

Soil gravelly and stony 3rd and 4th rates
No timber

Mountainous land 80.10 chs

Subdivision of Tp. 7 N.R. 3 E. continued

The sky is overcast and solar observations impossible.

No^o 03 W. bet. secs. 16 and 17.

Over descending land

- 5.00 Bottom of draw, 20 ft. below sec. cor., drains S.E. ascend
- 26.00 Top of spur, 75 ft. above draw, projects S. 70° E. descend
- 40.00 Set a brown cobble stone 15x10x8 ins., 10 ins in ground
for 1/4 sec. cor. marked 1/4 on W. face, raise
mound of stone 2 ft. base 1/4 ft. high W. of
cor. Pits impracticable
- 44.00 Bottom of ravine 200 ft. below spur, spring branch
3 ft. wide 4 ins. deep, drains S. 60° E. ascend
- 60.00 Top of spur, 215 ft. above ravine, projects S.
70° E. descend
- 67.00 Bottom of draw, 50 ft below spur, drains S. 70° E. ascend
- 77.00 Thence, along E. slope
- 80.00 Set a brown cobble stone 15x7x6 ins. 10 ins in
ground, for cor. of secs. 8, 9, 16 and 17 marked
4 notches on N. and E. edges, raise mound
of stone 2 ft. base 1/4 ft. high W. of cor.
Pits impracticable

Sand mountainous

Soil sandy, gravelly and stony 2nd, 3rd,
and 4th. rates

No timber

Mountainous land 80.00 chs.

East on a random line bet. secs. 9 and 16

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect N. and S. line 3 ft. N. of cor. of
secs. 9, 10, 15 and 16

Thence we run

N. 89° 59' W. on a true line bet. secs. 9 and 16

Over ascending land

- 2.00 Top of spur, 25 ft. above sec. cor. projects S. 20° E.
descend
- 15.00 Bottom of draw, 75 ft. below spur, drains S. 70° E. ascend
- 22.00 Top of spur, 60 ft. above draw, projects S. 30° E. descend
- 33.00 Bottom of draw 70 ft. below spur, drains S... ascend
- 39.99 a brown cobble stone 18x14x8 ins. 12 ins in ground

Subdivision of Tp. 7 N.R. 3 E. continued

	for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
56.00	Bottom of ravine, 200 ft. below spur, "Rock Creek" 6 lbs. wide 6 ins. deep, drains S. 30° E second
- 79.98	The cor. of secs. 8, 9, 16 and 17 This cor. is 300 ft. above ravine Land mountainous Soil sandy, gravelly and stony 2nd and 3rd and 4th rates. No timber Mountainous land 79.98 Chs.

	N. $00^{\circ}03'$ W. bet. secs. 8 and 9 Along E. slope
3.50	Descend on W. slope
12.00	Bottom of draw, 100 ft. below sec. cor. drains S. second
19.74	Top of spur, 110 ft. above draw, projects E. descend -
33.50	Bottom of draw, 90 ft. below spur, drains S. second -
40.00	Set a brown cobble, stone 15x10x7 ins., 10 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
53.00	Top of spur, 200 ft. above draw, projects E. descend
80.00	Set a brown cobble, stone 20x10x6 ins. 15 ins. in ground for cor. of secs. 4, 5, 8 and 9 marked 5 notches on S. and 4 notches on E. edges. raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable Land mountainous Soil stony and gravelly 3rd and 4th rates No timber Mountainous land 80.00 Chs.

	N. $89^{\circ}57'$ E. on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec cor.
79.90	Intersect. N. and S. line 17 lbs. N. of cor. of secs. 3, 4, 9 and 10
	Thence we run
	N. $89^{\circ}54'$ W. on a true line bet. secs 4 and 9

Subdivision of Tp. 7 N.R. 3E. continued

Over ascending land

24.00 Top of spur, 100 ft above sec. cor. projects S. 20° E. descend

39.95 Set a. 10000 c. bble. stone 30x10x7 ins, 22 ins in ground. for 1/4 sec. cor. marked from N. face, raise mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pitt impracticable

-3.00 Bottom draw. 25 ft. below spur, drains SW. & ascend

57.00 Top of ridge, 200 ft above draw, bears N. and N. descend

77.00 Bottom Prairie, 300 ft. below ridge, "Rock Creek" 6 lbs. wide 5 ins deep drains S. 25° E. ascend.

-7.80 The cor. of secos. 7, 8, 8 and 9

This cor. is 50 ft above ravine
Sand mountainous

Soil, gravelly and stony sand and yellow rated.
No timber

Constitutional land 79.90 Chs.

71.00 37 W. on a mud line bet. secos. 4 and 5

40.00 Set temp. line sec. cor.

81.12 Direct N. by S. Tp. 21 Chs. 71, 7 cor. Secos. 4, 5, 82 and 83. which is a sandstone 5x10x9 ins. above ground marked and witnessed as described by surveyor general.

Thence westward

S. 0°6' W. on a true line bet. secos. 4 and 5

Over ascending land through quaking asp. w. 500

Top of ridge 25 ft above sec. cor. bears N. W. and S. E. also leave timber, descend

34.00 Enter quaking asp. bears East W.

41.12 Set a brown bbble. stone 15x10x6 ins. 10 ins in ground for 1/4 sec. cor. marked from N. face raise mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pitt impracticable.

Trees too small to mark

63.00 Leave quaking asp. timber bears E. and W.

70.62 Spring branch 2 lbs. wide 3 ins deep on N.

75.00 Bottom of ravine, 500 ft. below ridge, "R. Creek" 6 lbs. wide 6 ins deep drains

Subdivision of Tp. 7 N. R. 3 E. Continued

-	81.12	<p>N. 25° E. accend The cor. of secs. 4, 5, 8 and 9 Sand mountainous Soil sandy and gravelly 2nd and 3rd. rates Timber Quaking asp Mountainous or heavily timbered land 81.12 chs. November 2 1897</p>
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November 3, 1897: From cor. of secs. 5, 6, 31 and 32. on S. bdy. of Tp. which is a brown quartzite 5x10x6 ins. above ground perfectly marked and witnessed we run -

N 0°04' W. bet. secs. 31 and 32

Over ascending land

40.00 Set a quartzite cobble stone 17x12x6 ins. 12 ins in ground, for 1/4 sec. cor. marked 1/4 on W. face raise mound of stone 2 ft. base 1 ft. high W. of cor. Pits impracticable

51.00 Top of spur, 500 ft. above sec. cor. projects E. accend

69.60 Bottom ravine, 250 ft below spur, "Pine Creek" 12 ft wide 6 ins. deep, drains. S. 70° E. accend

73.10 Wagon road bears N. 70° W. and S. 70° E.

80.00 Set a quartzite cobble stone 18x10x10 ins. 12 ins in ground, for cor. of secs. 29, 30, 31 and 32 marked 1 notch on S. and 5 notches on E edges, raise mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable

Sand mountainous

Soil gravelly and stony 3rd and 4th rates

No timber

Mountainous land 80.00 chs.

November 3: At this cor. we set off 41°18' N on lat. arc 15°14' S. on decl. arc, of one of the instruments, and at 8^h00^m a.m. l.m.t. determine a true meridian with the solar.

v

S. 89°57' E. on a random line bet. secs. 29 and 32

40.00 Set temp. 1/4 sec. cor.

Subdivision Tp. 7 N.R. 3 E. continued

80.04	Intersect N and S. line 7 blks. N of cor. of secs. 28, 29, 32 and 33. Thence we run West on a true line bet. secs. 29 and 32. Over ascending land
38.00	Thence nearly level along S. slope
40.02	Set a quartzite cobble stone 15x10x8 ins. 10 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable. Thence gradual descent.
80.04	The cor. of secs. 29, 30, 31 and 32. Land mountainous. Soil sandy, gravelly and stony 2nd, 3rd and 4th rates Res. timber Mountainous land 80.04 chs.

40.04	W. bet. secs. 29 and 30 Over ascending land
40.00	Set a quartzite cobble stone 15x10x6 ins. 10 ins. in ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable
61.00	Top of spur 500 ft. above sec. cor. projects W. descend
70.00	Bottom of draw, 75 ft. below spur, drains W. ascend
- 80.00	Set a brown cobble stone 20x14x10 ins. 15 ins in ground, for cor. of secs. 19, 20, 29 and 30 marked 2 notches on S. and 5 notches on E. edges. raise mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable This cor. is 110 ft. above draw- Land mountainous. gravelly and stony 3rd. and 4th. rates. timber.
	Mountainous land 80.00 chs.

40.00	East on a random line bet. secs. 20 and 29 temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N and S. line 16 blks. S. of cor. of secs.

Subdivision of Twp. 7 N.R. 3 E. continued

20, 21, 28 and 29

Thence we run

S. $89^{\circ} 53' W.$ on a true line bet. secs. 20 and 29

Over ascending land

17.00 Top of spur 100 ft above sec. cor. projects S. descend

38.00 Bottom of draw, 110 ft below spur, drains S. E. ascend.

39.98 Set a granite boulder 24x16x8 ins. 18 ins in ground

for 1/4 sec. cor., marked 1/4 on N. face, raise
round of stone 2 ft. base 1 1/2 ft. high N. of cor.

Path impracticable.

70.00 Top of ridge, 300 ft. above ravine bears N. and A. descend

- 79.96 The cor. of secs. 19, 20, 29 and 30

This cor. is 90 ft. below ridge

Sand mountainous

Soil sandy, gravelly and stony 2nd and 3rd and 4th rates

No timber

Mountainous land 79.96 obs.

N. $0^{\circ} 04' W.$ bet. secs. 19 and 20

Over ascending land

28.00 Top of ridge, 160 ft. above sec. cor. bears N. $20^{\circ} W.$
and S. $20^{\circ} E.$ descend

37.00 Bottom of draw, 90 ft. below ridge, drains S. ascend

40.00 Set a quantity of cobble stone 15x12x10 ins. 10 ins in
ground, for 1/4 sec. cor. marked 1/4 on N. face

raise round of stone 2 ft. base 1 1/2 ft. high
N. of cor. Path impracticable

68.00 Enter quaking asp and Mountain willows bears E. and N.

70.00 Top of spur, 100 ft. above draw, projects S. descend.

80.00 Set a brown cobble stone 15x12x9 ins. 10 ins. in ground
for cor. Secs. 17, 18, 19 and 20, marked 3 notches

on S. and 5 notches on E. edges, raise
round of stone 2 ft. base 1 1/2 ft. high N. of
cor. Paths impracticable

Trees too small to mark

Sand mountainous

Soil sandy loam and gravelly 2nd and 3rd
rates

Timber quaking asp and Mountain willows

Mountainous on heavily timbered land 8000 obs.

Subdivision of Tp. 7 N. R. 3 E. continued.

	91.89°53' E. on a random line bet. secs. 17 and 20
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 14 lk N of cor. of secs. 16, 17, 20 and 21 Hence we run. 91.89°59' W. on a true line bet. secs. 17 and 20. Over ascending land
7.50	Top of spur. 75 ft above sec. cor. projects S. descend.
30.00	Bottom of ravine, 125 below spur, drains S. E. ascend
40.00	Set a quartzite cobble stone 18x14x10 ins, 12 ins in ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face raise mound of stone 2 ft. base 1 ft high N. of cor. Pitt impracticable.
41.00	Top of ridge, 200 ft. above ravine bears N. 20° E. and S. 20° W. descend
52.00	Bottom of ravine, 150 ft. below ridge, drains S. ascend along N. E. slope
65.00	Enter thick Mountain Willows bear N. E. and S. W.
80.00	The cor. of secs. 17, 18, 19 and 20 Land mountainous Soil sandy loam and gravel 2nd and 3rd flats Timber Willows Mountainous or heavily timbered land 80.00 Chs.
November, 3; At this cor. we set off 15°19' N. on decl. acc. of one of the two sturments and at 11 ^h 54 ^m 2. m. l.m.t. observe the sun on the meridian the resulting lat. is 41°20' N.	

	N. 0°04' W. bet. secs 17 and 18 Over ascending land
1.00	Leave Mountain Willows, also draw on E. slope. willows bear N. W. and S. E.
4.00	Top of spur. 50 ft. above sec. cor., projects E. descend.
16.00	Bottom of draw, 50 ft. below spur, drains N. 35° E.
22.00	Hence nearly level along N. slope.
29.00	Bottom of draw, 90 ft. below N. slope, drains S. ascend
40.00	Set a gray quartzite 15x10x9 ins, 10 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face.

Subdivision Tp. 7 N. R. 3 E. continued

	raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
6.00	Top ridge, 300 ft. above draw, bears N. E. and S. W. descend.
7.00	Bottom of draw, 150 ft. below ridge, drains S. W. ascend.
8.00	Set a quartzite cobble stone 18x0.6 ins 10 ins in ground for cor. of secs. 7, 8, 11 and 18, marked 4 notches on S. and 5 notches on E. edges, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
	Land mountainous Soil sandy loam and gravelly 2nd and 3rd rates. Timber Mountain Willows Mountainous or heavily timbered land 80.00 chs.

	N. $89^{\circ}59' E.$ on a random line bet. secs. 8 and 12
4.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line 16 lbs. A. of cor. of sec. 8, 9, 16 and 17
	Hence we run S. $89^{\circ}52' W.$ on a true line bet. secs. 8 and 17
	Over ascending land
12.00	Top of spur, 120 ft. above sec. cor. projects $30^{\circ} E.$ descend
19.00	Bottom of ravine, 80 ft. below spur, drains S. E. ascend.
28.00	Top of spur, 100 ft. above ravine, projects $30^{\circ} E.$ descend
40.07	Set a quartzite cobble stone 15x10x8 ins. 10 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
47.00	Bottom of ravine, 200 ft. below spur, drains S. E. ascend
60.00	Top of spur, 120 ft. above ravine, projects $30^{\circ} E.$ descend.
66.00	Bottom of draw, 70 ft. below spur, drains S. E. ascend.
78.00	Top of ridge, 150 ft. above draw, bears N. and S. descend
80.14	The cor. of secs. 7, 8, 11 and 18
	Land mountainous Soil sandy loam and gravel 2nd and 3rd rates No timber Mountainous land 80.14 chs.

Subdivision of Twp. 7 N.R. 3 E. continued

4000' W. bet. secs. 7 and 8

Over level land.

- 3.00 Thence descend along W. slope
 19.00 Bottom of draw, 175 ft. below sec cor. drains S.
 W. ascend
 40.00 Set a brown cobble stone 15x9x7 ins. 10 ins in ground
 for 1/4 sec. cor. marked 1/4 on W. face. raise
 mound of stone 2 ft. base 1/4 ft high N. of cor.
 Tilt impracticable
 50.00 Top of ridge, 200 ft. above draw, bears E. and
 W. descend
 80.00 Set a quartzite cobble stone 20x10x10 ins. 15 ins in ground
 for cor. of secs. 5, 6, 7 and 8, marked 5 notches on
 N. and E. edges. raise mound of stone 2 ft.
 base 1/4 ft. high N. of cor. Tilt impracticable
 Sand mountainous
 Soil sandy, gravelly and stony, sand, silt and fine ratios
 No timber
 Mountainous land 80.00 chs.

At 8957' E. on a random line bet. secs. 5 and 8

- 40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect N. and S. line 18 lks N. of cor.
 of secs. 4, 5, 8 and 9.

Thence we run

First on a true line bet. secs. 5 and 8

Over ascending land

- 13.00 Top of spur, 200 ft. above sec cor. projects N. E.
 descend also enter heavy quaking asp.
 timber bears N. E. and S. W.
 20.00 Bottom of draw, 60 ft. below spur, drains N. E. ascend
 40.01 Set a quartzite cobble stone 15x7x6 ins. 10 ins in ground
 for 1/4 sec. cor. marked 1/4 on N. face, from which
 a quaking asp. 18 ins. diam. bears N. 10° W. 25 lks. distant
 marked 1/4 S. 5 B. J.
 A quaking asp. 9 ins. diam. bears S. 20° E. 15 lks.
 distant. marked 1/4 S. 8 B. J.
 50.00 Top of ridge, 300 ft. above draw bears N. and S. descend
 60.00 Leave quaking asp. timber bears N. and S.
 80.02 The cor. of secs. 5, 6, 7 and 8 -

Subdivision of Tp. 7 N. R. 3 E. continued.

This cor. is 175 ft. below ridge.
Sand mountainous.
Soil sandy loam, and gravel 2nd and 3rd.
rates
Timber quaking asp
Mountainous or heavily timbered land 80.0 m²

70°0'4" W. on a random line bet. secs. 5 and 6
40.00 Set temp. $\frac{1}{4}$ sec. cor.
81.33 Intersect N. bdy. of Tp. 9 lks. W. of cor. of secs. 5
6, 31 and 32. which is a sandstone 5x
14x10 ins. above ground marked and witnessed
as described by surveyor general.
Hence we turn
South on a true line bet. secs. 5 and 6.
Over ascending land
32.00 Top ridge, 200 ft. above sec. cor. bears N. 70° E. and S. 70° W. decumb
36.00 Enter quaking asp timber bears E. and W.
41.33 Set a granite stone 16x8x6 ins., 11 ins. in ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, raised mound
of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N of cor.
It is impracticable
A quaking asp, 10 ins. diam. bears S. 50° E. 33. lks.
distant marked $\frac{1}{4}$ S. 5 B. T.
A. quaking asp 5 ins. diam. bears S. 70° W. 41
lks. distant marked $\frac{1}{4}$ S. 6 B. T.
54.00 Leave quaking asp timber bears E and W.
76.00 Bottom of draw, 250 ft. below ridge, drains W
second
- 81.33 The cor. of secs. 5, 6, 7 and 8
Sand mountainous
Soil sandy loam and gravel 2nd and 3rd. rates
Timber quaking asp
Mountainous or heavily timbered land 81.33 lks.

November 3. 1897

November 5. 1897: The retracement of the
N. bdy. of this Tp. shows discrepancies
beyond the limit prescribed by the

Subdivision Tp. 7 N. R. 3 E. Continued.

On annual of instructions therefore
from cor. of secs. 29, 30, 31 and 32 we run
 $89^{\circ}57' W.$ on a true line bet. secs. 30 and 31
Over descending land

- 16.80 wagon road bears $N. 60^{\circ} W$ and $S. 60^{\circ} E.$
- 22.00 bottom ravine, 200 ft. below sec. cor. "Pine Creek", 1/2 lbs.
wide 6 ins. deep diams. $S. 20^{\circ} E.$, ascend
- 40.00 a sand stone 16x7x6 ins, 11 ins in ground for 1/4 sec.
cor. marked 1/4 on N. face, raised mound of stone
2 ft. base 1 1/4 ft. high N. of cor. Pits impracticable
- 41.50 Top of spur, 200 ft. above ravine, projects S. E. descend
- 55.00 bottom of draw, 130 ft. below spur, diams. S. ascend
- 59.50 Top of spur, 50 ft above draw, projects S. descend
- 82.00 Bottom of draw, 175 ft below spur, diams. S. ascend
- 92.70 Intersect W. bdy. of Tp. 85 lbs. ^{soil} cor. of
cor. from 25, 30, 31 and 36, describe in notes. Discrepancy of 2 lbs.
of Tp. from which we estimate all boundaries appertaining to res. 3083.

Set a sand stone 20x10x7 ins 15 ins in ground
for closing cor. of secs. 30 and 31 marked
C.C. on E, 1 groove on S. and 5 grooves
on N. faces. raised mound of stone
2 ft. base 1 1/4 ft. high E. of cor. Pits
impracticable

Land mountainous

Soil gravelly and stony and 4th water
no timber

Mountainous land 92.70 chs.

From cor. of secs. 19, 20, 29 and 30 we run
 $N. 89^{\circ}57' W.$ on a true line bet. secs. 19 and 30
Over descending land.

- 35.00 wagon road bears $N. 20^{\circ} W$ and $S. 20^{\circ} E.$
- 37.50 bottom ravine, 350 ft. below sec. cor. "Pine Creek"
1/2 lbs. wide 6 ins. dep. diams. $S. 20^{\circ} E.$, ascend
- 40.00 a gray quartzite 18x10x8 ins, 12 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face, raised
mound of stone 2 ft. base 1 1/4 ft. high N.
cor. Pits impracticable

41.00 Top of spur, 270 ft. above ravine, projects S. E. descend

42.35 Intersect W. bdy. of Tp. 1.68 chs. ^{soil} of cor. of sec.

Subdivision of Tp. 7 N.R. 3 E. Continued

13, 14, 25, and 30, described in notes of measurements of the body of the fence which in all respects applies to sections 17 and 30.
 Let a quartzite stone 15x10x6 ins. 10 ins in ground, for closing cor. of secs. 19 and 30
 Marked C.C. on E. 2 grooves on S. and
 4 grooves on N. faces. raise mound
 of stone 2 ft. base 1 1/2 ft. high E of cor.
 Pits impracticable.
 Sand mountainous.
 Soil gravelly and stony. 3rd and 4th rates.
 No timber.
 Mountainous land 92, 35 chs.

From cor. of secs. 17, 18, 19 and 20 we run
 T. 89th R. on a true line bet. secs. 18 and 19
 Over ascending land through mountain willows.
 2,000 Top of ridge 250 ft. above sec. cor. bears N. 70° W.
 and S. 20° E. descend also leave willows
 bears N. 70° E and S. 20° W.
 2,400 Enter quaking asp. timber bears N. and S.
 3,000 Leave same bears N. W. and S. E.
 4,000 Let a gray quartzite 16x14x8 ins. 11 ins in ground, for
 1/4 sec. cor. marked from N. face, raise mound
 of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits
 impracticable.
 6,250 Bottom Drawn, 300 ft. below ridge, Pine Creek
 6 lks wide 6 ins deep debris S. ascend
 6,300 Wagon road bears N. and S.
 7,300 Top of spur, 125 ft. above ravine projects S. descend
 8,800 Bottom draw, 17 ft. below spur, debris S. E ascend
 9,198 Intercept N. dy. of Tp. 360 also S. of cor. of secs.
 13, 18, 19, and 24, described in notes of measurements of N. dy. of Tp. from
 which in all respects applies to sections 18 and 19.
 Let a brown quartzite stone 17x12x8 ins. 12 ins in ground
 for closing cor. of secs. 18 and 19. Marked
 C.C. on E. 3 grooves on N. and S. faces.
 raise mound of stone 2 ft. base 1 1/2 ft. high E
 of cor. Pits impracticable.
 Sand mountainous.
 Soil sandy, gravelly and stony 2nd and 3rd

Subdivision of Tp. 7 N.R. B.C. continued.

and 4th rates

Timber gradually expanding Mountain willows
Mountainous or heavily timbered land 91.98 chs.

From cor. of secs. 7, 8, 17 and 18 we run-

At $89^{\circ}57' W.$ on a true line bet. secs. 7 and 18

Over descending land

15.00 Bottom of draw, 150 ft. below ridge, drains S. ascend

30.00 Top of spur, 165 ft. above draw, projects S. descend

40.00 Set a quartzite cattle stone 18x7x6 ino. 17 in. in ground
for 1/4 sec. cor. Marked 1/4 on N. face, raise
mound of stone 2 ft. base 1/4 ft. high E. of cor.
Pits impracticable

+2.00 Bottom of draw, 90 ft. below spur, drains $S 25^{\circ} E$
ascend

70.00 Top of ridge, 280 ft. above draw, bears N. and S. descend

89.00 Bottom of draw, 190 ft. below ridge, drains N. $20^{\circ} E$ ascend

91.80 Intersect W. bdy. of Tp. 5 1/2 chs. Soil & cor. of secs.

7, 12, 13 and 18, described in notice of instrument & W. bdy. of Tp. from
which we estimate all markings pertaining to secs. 7 and 8.

Set a sandstone 14x8x8 ino. 9 in. in ground
for closing cor. of secs. 7 and 18. marked
C.C. on E. 4 grooves on S. and 2 grooves
on N. faces. raise mound of
stone 2 ft. base 1/4 ft. high E. of cor.
Pits impracticable

Land mountainous

Soil sandy and gravelly 2nd and 3rd rates.
No timber

Mountainous land 91.80 chs.

November 5, 1897: At this cor. we set
off $15^{\circ}56' S.$ on decl. arc. of one of the
instruments, and $11^{\text{hr}} 5^{\text{min}} 4^{\text{sec}}$ A.M.L.M.T.
observe the sun on the meridian
the resulting lat. is $41^{\circ}21' N.$

From cor. of secs. 5, 6, 7 and 8 we run

At $89^{\circ}57' W.$ on a true line bet. secs. 6 and 7

Over descending land -

Sub-division of Twp. 7 N. T. R. 3 E. concluded.

- 20.00 Bottom of ravine, 125 ft. below sec. cor. drains S. 65° W.
ascend.
- 40.00 Set a brown cobble stone 15x10x8 ins. 10 ins in ground
for 1/4 sec. cor. marked 1/4 on N. face
raise mound of stone aft. base 1 1/2 ft.
high E. of cor. It is impracticable
- 50.00 Top of spur, 200 ft above ravine, projected. descend
- 64.50 Enter heavy mountain willows back N. W. and N. E.
- 91.58 Intersect W. bdy. of Twp. 6, 30 Chs. Side M. of road runs
1, 6, 7 and 12, described in notes of instrument of W. bdy. of 5th. From
which obliterate all markings appertaining to roads 6, 8, 7.
Set a gray quartzite 18x10x8 ins., 1 1/2 ins in ground
for closing cor. of secs. 6 and 7. marked
C.C. on E., 5 grooves on S. and 1
groove on N. faces. raise mound
of stone 2 ft. base 1 1/2 ft. high E. of cor.
It is impracticable
- Willows too small to mark
- Sand Mountainous
- Soil sandy, gravelly and stony 2nd,
3rd, and 4th. rates
- Timber Mountain willows
- Mountainous or heavily timbered land
- 91.58 Chs.

November 5. 1897

General Description.

This township contains only mountainous land, the soil of which ranges from very stony and sterile to sandy loam or 2nd rate.

Agriculture can be carried on to a limited extent in "Ogden Canyon", but in no other part of the township profitably.

A small amount of fine timber is found on some of the north facing slopes near the east boundary of the township and a few scattered patches of quaking asp are to be found in other parts of the township.

There is little stone of any kind

suitable for building purposes in any part of the township, nor is there any indications of mineral.

There is an abundance of water for all purposes to which it will likely be put. All the water is pure and cold.

The greater part of the township is valuable for grazing purposes.

There are three settlers on the township. W. M. Slater who claims the North West quarter of sec. 34. J. H. Slater who's cabin is in sec 33. claims the west half of the S. W. $\frac{1}{4}$ of sec. 34 and the east half of the S. E. $\frac{1}{4}$ of sec 33. and

A. G. Slater who's cabin is in sec. 33. near the west boundary, but who claims the east half of the S. W. $\frac{1}{4}$ of sec. 33 and the West half of S.E. $\frac{1}{4}$ of sec 33.

None of these settlers have cultivated to any great extent the ground they claim and their improvements consist almost wholly the cabins they occupy.

Each of which is probably worth \$150.00

The Messrs. Burrows we learned nothing about.

The action is necessary for the 8 acres.

Frank E. Barker
William B. Dougall
U.S. Deputy Surveyor

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Extra Notes.

Re-tracement of the East Bdy. of T.7 N, R.2 E.

November 4, 1897. The intersection of our road's sub-divisional lines, of T.7 N, R.3 E. with the N. bdy. of the Tp., compared with that of the E. bdy. of T.7 N, R.2 E. with the same line, shows an error beyond the limit prescribed by the Manual of Instruction, therefore we retain the E. bdy. of T.7 N, R.2 E. as follows:-

From the cor. of Tps. 6 and 7 N, Rs. 2 and 3 E. which was changed to cor. common to only T.7 N, Rs. 2 and 3 E, by S.E. Peough et al. - a sand stone 8x2x8 ins above ground, properly marked and witnessed, we run

North, bet. secs. 31 and 36.

Over descending land.

13.00 Wagon road, near N.W. and S.E.

14.00 Bottom of dry ravine, 450 ft below Tp. cor. drains S.E. around

40.37 Fall 6 ft. N. of the 1/4 sec. cor. which is a sand stone 6x10
+ 6 ins. above ground, marked and witnessed as described
by surveyor general.

66.00 Spur, 300 ft. above ravine, projects S.E. quite direct.

80.82 Fall 15 ft. N. of cor. of secs. 25, 30, 31, and 36. which is a
sand stone 5x11x6 ins above ground marked and witnessed
as described by surveyor general.

Land mountainous

Soil, very stony $\frac{4}{4}$ th rate.

No timber

We continue our line

North, near bdy. bet. secs. 25 and 30.

Over quite descent.

45.00 Ravine, 50 ft below spur, drains S.E. around

40.41 Fall 20 ft. N. of the 1/4 sec. cor. which is a gray quartzite stone
6x2x6 ins. above ground marked and witnessed as
described by surveyor general.

62.56 Head of draw on S.H. slope continue ascent.

Reitacement of E. body. of T. 7 N, R. 2 E. - Continued

5.00	Fall 29 lies. $\frac{1}{4}$ sec. cor. size 19, 24, 25, and 30 which is a cobble stone $5 \times 10 \times 6$ ins. above ground, marked and intersected as described by surveyor general. Land mountainous Soil, gravelly loam and stone 3 rd and 4 th rates No timber
	We continue our line North, near body. bet. sec. 19 and 24. On ascending land.
3.00	Fall ridge, near N. and S.E. discnd.
6.00	Enter, small quarry asp and some scattering pines.
16.00	Thence, nearly level along E. slope. 100 ft below ridge
41.00	Fall 37 lies. $\frac{1}{4}$ sec. cor. which is a sand stone $5 \frac{1}{2} \times 6$ ins. above ground, marked and intersected as described by surveyor general.
47.00	Thence ascend, bear timber, bears E and N.
71.00	Spur, 90 ft. above change of slope. discnd
79.00	Draw, 60 ft below spur, drains S.E. ascend
81.90	Fall 45 lies. $\frac{1}{4}$ sec. cor. size 13, 18, 19, and 24, which is a cobble stone $6 \frac{1}{2} \times 12$ ins above ground marked and intersected as described by surveyor general. Land mountainous Soil gravelly loam, 3 rd rate. Some scattering pine and quarry asp timber
	We continue our line North, nearby bet. sec. 13 and 18. On ascending land.
3.00	Enter dense undergrowth growth of gravelly quarry asp bears E and N.
26.00	Leave undergrowth, top of abrupt ascent, thence gather rock.
40.95	Fall 52 lies. $\frac{1}{4}$ sec. cor. which is a sand stone $7 \times 10 \times 8$ ins above ground marked and intersected as described by surveyor general
51.00	Spur, projects E. discnd.
65.00	Leave Draw, 100 ft below, spur, drains E. ascend.
81.87	Fall 60 lies. $\frac{1}{4}$ sec. cor. size 7, 12, 13, and 18, which is a cobble stone $6 \times 10 \times 9$ ins. above ground, marked and intersected

Attachment of E. end of S. T. R. 2 E. continued

as described by surveyor general.

Land mountainous

Soil sandy and gravelly loamy, and stone $\frac{3}{4}$ rd and $\frac{4}{5}$ th rates.
Dense undergrowth 17.00 chs.

number 4. At this cor. we set off $15^{\circ} 37' S.$ on the decl
are some of the instruments, and at $11^{\text{h}} 57^{\text{m}}$ am I
observe the sun on the meridian, the resulting lat is
 $41^{\circ} 21' N.$

We continue our line

North, near body. bet. sec. 7 and 12.

On ascending land.

6.00 Enter scattering fine timber near E and N.

36.50 Top of ridge, bears N 80° E and 3,800 ft above sea level.

40.46 Fall to the N $\frac{1}{2}$ of sec. cor. which is a limestone $6 \times 12 \times 7$
ins above ground marked and witnessed as described
by surveyor general.

41.00 Head of draw, draws N. - gentle ascnd.

56.00 Spur, projects N. - descnd.

72.00 Gulch draws N. ascnd. lean timber

80.87 Fall to the N $\frac{1}{2}$ of cor. faces 16, 7 and 12, which is a wobbly
stone $5 \times 20 \times 12$ ins above ground, marked and
witnessed as described by surveyor general.

Land mountainous

Soil gravelly and stony, $\frac{3}{4}$ rd and $\frac{4}{5}$ th rates.

Scattering fine timber

We continue our line

North, near body. bet. sec 1 and 6.

On ascending land.

15.00 Ridge 200 ft above gulch, bears E and N. descnd.

25.50 Gulch, draws N. N. ascnd.

30.00 Spur, projects N. N. descnd.

39.03 Fall 83 the N $\frac{1}{2}$ of sec. cor. which is a sandstone, $6 \times 2 \times 8$
ins above ground, marked and witnessed as described
by surveyor general.

44.50 Middle Fork of Ogallala River, 10-12 ins wide 5 ins. dep., annual 3 ft.

45.00 Waggon Road, bears N E and S. N. ascnd.

47.34 Fall 92 the N $\frac{1}{2}$ of the closing end of S. T. R. 2 and 3 E.

Pitcairn of E. End of T. 7 N. R. 2 E. - Continued.

which is a quartzite cobble stone 6 x 10 x 5 ins above
ground marked and returned as described by surveyor
general. Therefore the E. End of T. 7 N. R. 2 E. runs N 00° E.

Sand mineral veins

Soil sandy & gravelly down and stone, ~~sub~~ ^{3rd} and ^{4th} ratios.
no lime

November 4. 1897.

Frank E. Baxter

William B. Dougall

U.S. Deputy Surveyors

Volume

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R0247

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frank E. Baxter and William R. Dougall, United States Deputy Surveyors to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of the Salt Lake Base and Meridian, in the State of Utah, showing the respective capacities in which they acted:

<u>John H. Dougall</u>	<u>Thomas H. Balliday</u>	<u>Chairman.</u>
<u>John H. Stimpson</u>	<u>James W. Welsh</u>	<u>Chairman.</u>
<u>James Stuart</u>		<u>Moundman.</u>
<u>David H. Snow</u>		<u>Moundman.</u>
<u>Walter H. McLaughlin</u>		<u>Axman.</u>
<u>Thomas Slaten</u>		<u>Axman.</u>
<u>George M. Dougall</u>	<u>Charles Lallis</u>	<u>Flagman.</u>

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank E. Baxter and William R. Dougall, United States Deputy Surveyors in surveying all those parts or portions of the subdivision lines of Township No. 3 North, Range No. 1 East, of Township No. 2 South, Range No. 5 East; Township No. 1 South, Range No. 1 East, of Township No. 3 North, Range No. 1 East, Township No. 8 North, Range No. 5 East; Township No. 7 North, Range No. 5 East, of Township No. 8 North, Range No. 5 East, Township No. 7 North, Range No. 6 East, of Township No. 7 North, Range No. 6 East, of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by them and under their direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

<u>John H. Stimpson</u>	<u>Thomas H. Balliday</u>	<u>Chairman.</u>
<u>John H. Stimpson</u>	<u>James C. Oldham</u>	<u>Chairman.</u>
<u>James Stuart</u>		<u>Moundman.</u>
<u>David H. Snow</u>		<u>Moundman.</u>
<u>Walter H. McLaughlin</u>		<u>Axman.</u>
<u>Thomas Slaten</u>		<u>Axman.</u>
<u>George M. Dougall</u>		<u>Flagman.</u>
<u>Charles Lallis</u>		<u>Flagman.</u>

Subscribed and sworn to before me this 8th day of November, 1807



George M. Dougall
Notary Public

Mr. + 2nd; and 8th; and 9th; and 10th; and 11th; and 12th; and
13th; and 14th; and 15th; and 16th; and 17th; and 18th; and 19th;
and 20th; and 21st; and 22nd; and 23rd; and 24th; and 25th; and 26th;
and 27th; and 28th; and 29th; and 30th; and 31st; and 32nd; and 33rd;
and 34th; and 35th; and 36th; and 37th; and 38th; and 39th; and 40th;
and 41st; and 42nd; and 43rd; and 44th; and 45th; and 46th; and 47th;
and 48th; and 49th; and 50th; and 51st; and 52nd; and 53rd; and 54th;
and 55th; and 56th; and 57th; and 58th; and 59th; and 60th; and 61st;
and 62nd; and 63rd; and 64th; and 65th; and 66th; and 67th; and 68th;
and 69th; and 70th; and 71st; and 72nd; and 73rd; and 74th; and 75th;
and 76th; and 77th; and 78th; and 79th; and 80th; and 81st; and 82nd;
and 83rd; and 84th; and 85th; and 86th; and 87th; and 88th; and 89th;
and 90th; and 91st; and 92nd; and 93rd; and 94th; and 95th; and 96th;
and 97th; and 98th; and 99th; and 100th; and 101st; and 102nd; and 103rd;
and 104th; and 105th; and 106th; and 107th; and 108th; and 109th; and 110th;
and 111th; and 112th; and 113th; and 114th; and 115th; and 116th; and 117th;
and 118th; and 119th; and 120th; and 121st; and 122nd; and 123rd; and 124th;
and 125th; and 126th; and 127th; and 128th; and 129th; and 130th; and 131st;
and 132nd; and 133rd; and 134th; and 135th; and 136th; and 137th; and 138th;
and 139th; and 140th; and 141st; and 142nd; and 143rd; and 144th; and 145th;
and 146th; and 147th; and 148th; and 149th; and 150th; and 151st; and 152nd;
and 153rd; and 154th; and 155th; and 156th; and 157th; and 158th; and 159th;
and 160th; and 161st; and 162nd; and 163rd; and 164th; and 165th; and 166th;
and 167th; and 168th; and 169th; and 170th; and 171st; and 172nd; and 173rd;
and 174th; and 175th; and 176th; and 177th; and 178th; and 179th; and 180th;
and 181st; and 182nd; and 183rd; and 184th; and 185th; and 186th; and 187th;
and 188th; and 189th; and 190th; and 191st; and 192nd; and 193rd; and 194th;
and 195th; and 196th; and 197th; and 198th; and 199th; and 200th; and 201st;
and 202nd; and 203rd; and 204th; and 205th; and 206th; and 207th; and 208th;
and 209th; and 210th; and 211st; and 212nd; and 213rd; and 214th; and 215th;
and 216th; and 217th; and 218th; and 219th; and 220th; and 221st; and 222nd;
and 223rd; and 224th; and 225th; and 226th; and 227th; and 228th; and 229th;
and 230th; and 231st; and 232nd; and 233rd; and 234th; and 235th; and 236th;
and 237th; and 238th; and 239th; and 240th; and 241st; and 242nd; and 243rd;
and 244th; and 245th; and 246th; and 247th; and 248th; and 249th; and 250th;

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Subdivisions of Tp. 7 N.R. 3 E.

the following lines, viz:- The Subdivisions Tp. 8 N.R. 1 W.; the Subdivi-
sions Tp. 2 S.R. 5 W.; the South and East Boundaries and Subdivisions
Tp. 1 S.R. 7 E.; the Subdivisions Tp. 3 N.R. 14 E.; the West Boundary and
Subdivisions Tp. 8 N.R. 6 E.; the First Grade Meridian East or West
Boundary, the North Boundary and Subdivisions Tp. 7 N.R. 5 E.; the First
Grade Meridian East or West Boundary and Subdivisions Tp. 8 N.R. 5 E.;
the West and North Boundaries and Subdivisions Tp. 7 N.R. 4 E.; and the

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frank E. Baxter & William B. Dougall, United States Deputy Surveyors do solemnly swear that, in pursuance of a contract received from George Watson United States Surveyor General for The State of Idaho, bearing date of the 21 day of July, 1897, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for The State of Idaho, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Base and meridian, in the State of Illah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for The state of Illah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Frank E. Baxter William B. Dougall
United States Deputy Surveyors

Subscribed by said Frank Buxton & William B. Grayall, and sworn to before me
this 30th day of December, 1897



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah May 7th, 1898

The foregoing field notes of the survey of ~~the~~ ^{the} ~~Meridians of Township~~
~~North Range I East of the Salt Lake Base~~
~~and Meridians, Etc.~~

executed by Frank E. Barto & William B. Dougall
under his contract No. D 14, dated July 21, 1897, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Jacob B. Blain
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
_____, has been correctly copied from the original notes on file in this office.